Exhibit A

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Page 1
              IN THE UNITED STATES DISTRICT COURT
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                FOR THE DISTRICT OF NEW JERSEY
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     CHARLENE DZIELAK, et al., :
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                            : CIVIL ACTION NO.
            Plaintiffs,
                                :2:12-cv-00089-KM-SCM
 6
             VS.
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     WHIRLPOOL CORPORATION,
 8
     LOWE'S HOME CENTER, SEARS :
     HOLDINGS CORPORATION, THE :
 9
     HOME DEPOT, INC., FRY'S
     ELECTRONICS, INC., AND
10
     APPLIANCE RECYCLING CENTERS:
11
     OF AMERICA, INC.,
           Defendants.
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               Videotaped deposition of COLIN B. WEIR,
     taken by and before Lisa Forlano, CCR, CRR, RMR, at
16
     the offices of Bursor & Fisher, P.A., 888 Seventh
17
     Avenue, New York, New York, on Friday, April 22,
18
     2016, commencing at 9:19 a.m.
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20
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     Job No. CS 2236911
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Page 4 (Declaration of Colin B. Weir dated 1 2. December 28, 2015 was marked Weir-1 for identification.) 3 (Declaration and Expert Report of J. 4 Michael Dennis, Ph.D. was marked Weir-2 for 5 identification.) 6 (Declaration and expert report of Dr. R. Sukumar dated December 28, 2015 was 8 9 marked Weir-3 for identification.) VIDEO OPERATOR: We are now on the 10 record. Please note that the microphones are 11 12 sensitive and can pick up whispering or your 13 private conversations and just please keep your cellphones away from the microphones as 14 15 they can cause interference. Recording will 16 continue until all parties agree to go off the 17 record. My name is Drew Cerria, representing 18 19 Veritext Corporate Services. The date today is Friday, April 22, 2016. The time 20 21 is approximately 9:19 a.m. 2.2. Today's deposition is being held at the law firm of Bursor and Fisher, P.A., 2.3 located at 888 Seventh Avenue, New York 24 25 City, 10019.

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Page 5

And today's deposition is being taken by counsel for the defense. The caption of today's case is Charlene Dzielak, Shelley Baker, Francis Angelone, Brian Maxwell, Jeffrey Reed, Kari Parsons, Charles Beyer, Jonathon Cohen, Jennifer Schramm and Aspasia Christy on behalf of themselves versus Whirlpool, Lowe's Home Center, Sears Holding Corporation, The Home Depot, Incorporated, Fry's Electronics, Incorporated and Appliance Recycling Centers of America.

This case is being held in the United States District Court in the District of New Jersey. The case number is 12-CV-0089-KM-JBC.

Our witness today is Mr. Colin B. Weir.

And at this time if our attorneys will identify themselves, their firms and the parties they represent, after which our reporter, Ms. Lisa Forlano, also of Veritext will swear in Mr. Weir and we will begin.

MR. DECKANT: This is Neal Deckant from Bursor and Fisher, representing Plaintiffs.

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Page 6 And I'm joined today by Anthony Vozzolo of 1 Vozzolo LLC. 2. MR. LOGAN: This is Cedric Logan of 3 Wheeler Trigg O'Donnell, and I'm representing 4 Defendants Whirlpool, Lowe's, Sears and Fry's 5 Electronics. 6 7 COLIN B. WEIR, having been duly sworn, was examined and testified as follows: 8 9 BY MR. LOGAN: Okay. Mr. Weir, good morning. 10 Q Good morning. 11 Α 12 Good to see you again. Q 13 Α A pleasure. You've been deposed many times; is that 14 0 15 correct? That's true. 16 Α 17 So I'm going to skip some of the Q formalities. Is there any reason you can't give 18 19 truthful testimony today? 20 I don't think I'll have any problem 21 giving truthful testimony today, although I will 2.2 note that I am just returning to my firm from an 23 extended paternity leave, and more than usual I may 24 ask you to help refresh my recollection with documents since it's been some time since I've 25

Page 7 thought about some of these issues. 1 2. Well, congratulations on your -- your 3 paternity. 4 Α Thank you. And that's no problem. We will take 5 all the time we need in order to make sure that 6 7 you -- your -- your recollection is sufficiently refreshed so that you can give accurate testimony. 8 9 Α Thank you. 10 And if you need a break, just let me know. Just try to give me a maybe five-minute heads 11 12 up so that I can wrap up any series of questions. 13 Α Okay. Okay. Some of this background material 14 15 we have covered in other cases, but just so I have a 16 clean record in this case I'll want to cover it 17 briefly here. 18 Did you attend college? I did. 19 Α 20 And where was your undergrad? Q 21 Α I attended the College of Wooster, 2.2 W-O-O-S-T-E-R. And what year did you graduate? 23 Q 2003. 24 Α And what was your major? 25 Q

	Page 8		
1	A Business economics.		
2	Q Business economics. And did you have		
3	any minors?		
4	A I did not.		
5	Q And what was your GPA?		
6	A I don't remember the precise amount,		
7	but I graduated with cum laude honors.		
8	Q Okay. Describe business economics for		
9	me, just the nature of what you studied.		
10	A It was a traditional economics program		
11	that focused more on business issues, including		
12	accounting, marketing, product development and then		
13	some of the more traditional economic type of topics		
14	like statics, progression analysis. I think that's		
15	a broad level. I don't think that's every class I		
16	took, but		
17	Q You studied microeconomics?		
18	A Yes.		
19	Q Supply and demand and the nature of		
20	prices?		
21	A Yes.		
22	Q Okay. Does any of the study that you		
23	did as an undergraduate inform your work on this		
24	case?		
25	A Sure. I think it underpins the basics		

Page 9 of my background and experience as an economist. 1 You would describe yourself as an 2. expert in economics? 3 I would. 4 Α You would describe yourself as an 5 expert in statistics? 6 Α Yes. Now, I -- I note in your report -- and 8 9 for the record, why don't we just go ahead and say 10 we have three exhibits pre-marked which have been 11 given to you. Exhibit 1 is a copy of your 12 Declaration in this case. 13 Exhibit 2 is a copy of the Declaration and expert report of J. Michael Dennis, Ph.D. And 14 15 Exhibit 3 is a copy of the Declaration and expert report of Dr. R. Sukumar. 16 17 MR. DECKANT: Cedric, I don't believe I 18 have a copy of Exhibit Number 3. 19 MR. LOGAN: My apologies. Sukumar, let 20 me get that for you. 21 MR. DECKANT: Thank you. 2.2 BY MR. LOGAN: Now, I note in your report you rely on 23 the declarations of Drs. Dennis and Sukumar. 24 That's a fair characterization? 25

Page 10 I would say I rely on them in part. 1 Α 2. Q And what is the name of the survey technique used by Dr. Dennis? 3 Α Contingent valuation method. Just 4 sometimes abbreviated as CVM. 5 Okay. Contingent evaluation. 6 0 7 And same question for Dr. Sukumar. Dr. Sukumar relies on a survey 8 Α 9 technique known generally as conjoint analysis, and 10 in particular he used a subset of the conjoint 11 methodologies known as ASEMAP, all caps A-S-E-M-A-P. 12 You obtained your MBA, correct? Q 13 Α That's correct. And what was the name of your college? 14 0 15 Α I went to Northwestern University for that degree. 16 17 And I know that Northwestern University MBA program, there's various types of programs. 18 19 There's night school. There's day school. There's 20 telecommuting. What was the nature of your enrollment at Woost -- at Northeastern? 21 Some of the classes were day classes. 2.2 Α Some of the classes were evening classes, but it was 23 24 a pre-requisite of the program that you maintain full-time employment while you are taking your 25

degree. So I was continuously employed at my current firm, Economics and Technology, while I was earning that degree.

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Q And was there a particular concentration that you studied in the course of getting your MBA?

A I don't think there was a particular concentration offered per se, but the program covered traditional business and economic concepts like accounting, marketing, finance, economics, statistical analysis. There were classes, for example, in conjoint analysis, in marketing, innovation, human resources, business law.

Q Did you study contingent valuation in the course of your education?

A I don't know whether Northeastern included any contingent valuation studies. Some of my undergraduate studies involve what's known as AB testing, which uses the same techniques as contingent valuation from a statistical perspective; although I don't know that you would call it in the context valuation in the context that I used.

Q Well, I'll -- I'll ask you some more questions about Dennis and Sukumar later on to make this record, but just generally, did you evaluate

Page 12 and scrutinize their reports so that you knew that 1 2. you could rely on them, or did you more just take it as a given that they're qualified and they did a 3 good job on their reports? 4 I would say it's a mix of both. 5 6 relied on having worked with both of these experts in other proceedings before, their stated credentials, but I myself, I would consider myself 8 9 to have expertise in both contingent valuation 10 methodology and conjoint methodology and have been 11 accepted as an expert as such by various courts. 12 And so I made some investigation as to the 13 methodologies used by both Dr. Sukumar and 14 Dr. Dennis to give myself comfort that they have, at 15 least on the face of things, applied those methodologies in a way that I would find reasonable 16 17 myself. 18 Did you do a -- a rigorous review of 19 their methodology? 20 Α Tell me what you mean by "a rigorous 21 review." 2.2 For example, did you examine the 23 underlying data that they collected and ensure that they did the calculations correctly? 24 I did examine, I believe, the 25 Α

Page 13 underlying datasets of both experts. I don't think 1 2. I fully reproduced all of their calculations. 3 So sitting here today, you don't personally quarantee that everything contained in 4 the Sukumar and Dennis reports is 100 percent 5 accurate; is that fair? 6 7 I don't know whether it's fair or not. Well, would you swear under oath that 8 Q 9 everything contained in the Dennis report is 10 accurate? 11 No, I have not conducted sufficient Δ 12 investigation into the Dennis report to basically 13 adopt it as my own testimony. 14 And same question for Sukumar. 0 15 Α Same answer. 16 I want to talk about your expertise in 17 both conjoint analysis and contingent valuation. Why don't we start with conjoint analysis. Can you 18 describe for me what conjoint analysis is? 19 20 Conjoint analysis is a very broad 21 discipline of survey research that can be used for 2.2 any number of reasons. But the reason that it's 23 being used here and a common application of the 24 technique is to determine the value or premium associated with a particular product attribute. 25

And conjoint analysis, again, at a high level here because the discipline is pretty broad, relies on survey tasks that either involve ranking or choosing or ordering various either product profiles or product attributes or mixes thereof in order to, after a subsequent statistical evaluation, determine, at least in this case, the value of an attributed question; namely the value of the Energy Star as it was applied to the Maytag Centennial washing machines involved in this litigation.

Q What is the most common use of conjoint analysis in the academic world today?

A Again, I know that the discipline is quite broad. I'm not sure that I could identify for you what the most common application would be. But I -- I think it relates generally to what's been done here, which is that it seeks to determine the -- the value of various product attributes.

Q Okay. Have you ever conducted a conjoint analysis in your career?

A Yes.

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Q How many times?

A I have permanently individually conducted several conjoint studies, probably more than five, less than 10. Although as i sit here

today I'm not sure I have the exact number. But I've also been involved in team efforts that have looked at the design and implementation of various conjoint studies. In addition to that, again, many times, maybe as many as 10 or 20.

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Q So before the five to ten conjoint analyses that you have conducted yourself, were those for the purposes of litigation or for some other purpose?

A Well, I guess I should provide a little bit more clarity. Some of them were part of my educational experience where in training for the technique we then put the rubber to the road and actually ran conjoint studies. Some of them have been for private clients. And in a couple of litigation instances, I have specified how I would perform a conjoint study, but have not yet actually run that conjoint study.

Q And so what -- the -- the reports here did not merely propose a method, but they actually carried it out; is that correct?

A That's correct.

Q Have you, in litigation, done something similar with respect to conjoint analysis? Have you carried it out and had it scrutinized by a court?

A Again, I've been involved with teams of people that have done so, but I'm not sure that I have you ever done that by myself.

Q Have you ever published any academic articles on conjoint analysis?

A I'm not in the business of publishing academic articles, so, no, I have not.

Q Have you ever taught any classes on conjoint analysis?

A I don't believe so, no.

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Q Have you ever been asked to review a conjoint analysis as part of a peer-review process for an academic journal?

A Again, that's beyond the scope of the services that my business provides, so the answer is no. Although, again, I have enough experience with conjoint that I would feel comfortable performing that analysis, if necessary.

Q All right. Well, now I'm going to ask you questions about contingent valuation. I believe that you said that you did study, or did not, I'm sorry, contingent valuation in your education?

A Contingent valuation, to me, is one flavor of something that I was taught as AB testing, which is the comparison of one thing versus another

using statistical methods, and in the contingent valuation method you're collecting the data for the comparison from a consumer survey. So, again, I believe I have the educational background for the technical underpinnings of that, but I was not taught the methodology by the name "contingent valuation method."

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However, I consider myself a lifelong learner and I have been involved with contingent valuation method on the job for 10 years now. So it's something that I have been immersed with and focused and studied professionally now for sometime.

Q Have you carried out a contingent valuation analysis yourself?

A I think -- I think many, if not all, of the times that I've been involved with a contingent valuation study that has been run from -
100 percent from beginning to end has been as part of a team. I have, in several litigations, specified how -- specified the details of a contingent valuation method, but I'm awaiting court approval before I've been asked to go forth and run, actually collect the survey data, which would be the final step.

Q And have you ever taught any classes on

Page 18 contingent valuation? 1 2. Again, I'm not a professor, so I haven't had the opportunity to do so. 3 And you've never published an economic 0 4 article on contingent valuation? 5 Again, I'm not in the business of 6 7 publishing articles, so I have not. Now, there are various types of 8 Q contingent valuations we've discussed; is that 9 10 correct? I'm not sure that we have discussed 11 Δ 12 that there are various types of contingent 13 valuation. Well, for example, you mentioned ASEMAP 14 0 15 being one methodology? That's a conjoint methodology. 16 17 My conjoint, my -- my apologies. Well, then why don't we talk about conjoint again just for 18 a minute. 19 20 A conjoint analysis could be -- the results of that analysis, that could be biased in 21 22 various ways due to problems with the survey design or execution; is that correct? 23 I -- I don't guite understand that 24 Α question. Could you try again, please? 25

Page 19 Sure. Any survey, regardless if it is 1 2 contingent or conjoint or some other methodology, 3 can have biased results in various ways due to the design or the execution of the survey; is that 4 correct? 5 I wouldn't say that all surveys have 6 Α bias. In fact, most of them are designed to not have bias. 8 9 0 What are some of the ways that a survey 10 designer could check against possible biases? 11 I don't understand what you mean by 12 "check against bias." 13 Q If an academic was interested in minimizing bias, for example, in a survey technique, 14 15 how would they go about doing that? 16 MR. DECKANT: Objection. 17 THE WITNESS: I think most of the work 18 to minimize bias is done in the survey design 19 phase, and that's done by the selection of and 20 drafting of the survey questionnaire. BY MR. LOGAN: 21 2.2 There are academic articles and books regarding how to minimize bias in survey design; is 23 that correct? 24 You know, I've read so many articles 25 Α

Page 20 about survey and so many books, I -- I assume that 1 topic is covered. I don't know if there are 2. articles or books that address solely that one 3 topic, but perhaps. 4 5 Have you ever had any education 6 regarding the use of contingent valuation to 7 determine the price premium for a consumer good? Let me rephrase that. A price premium 8 9 for a particular attribute of a consumer good. 10 I think that's the only way in which 11 I've ever used contingent valuation methods. So I 12 would say all of my only experience with contingent 13 valuation method is -- is in the use of the 14 technique in that manner. 15 Have you ever had any education on the use of conjoint analysis to determine a price 16 17 premium for a particular attribute of a consumer 18 good? 19 Absolutely. Α 20 And this is just the experience that we've been discussing so far? 21 2.2 Α No. I had an entire graduate level course that focused on the implementation of 23 conjoint surveys and, in particular, how to value a 24 particular attribute that you're studying. As well 25

Page 21 as you've mentioned additional on-the-job education 1 2. and training and use of these techniques. 3 Q Have you ever conducted a consumer survey yourself? 4 Α Yes. 5 And how many times? 6 0 Α Dozens. Maybe more. And was that for litigation or for 8 Q 9 other purposes? 10 Α Both. 11 How many for litigation? Q 12 As I sit here today, I don't know. 13 can't recollect. When you are conducting a consumer 14 0 15 survey, is it important to get a sufficient number of respondents in order to ensure the validity of 16 the results? 17 18 Α It depends tremendously on the context 19 and goal of the survey. 20 So what does the phrase "margin of 21 error" mean to you within context of conducting a 2.2 consumer survey? 23 At least in some surveys, the goal of Α the survey is to get information from a sample 24 population that you then which -- wish to project to 25

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the total population or the universe, and the margin of error gives you some indication about the statistical accuracy of the estimate from the sample. So you might typically see plus or minus 6 percent margin of error, which would indicate that the sample estimate could vary slightly from the point estimate of the sample itself.

Q As a general matter, is it the case that the more respondents you have in a survey the lower margin of error you have?

A There may be exceptions, but I think generally all else equal the bigger the sample, at least up to a certain threshold, the smaller the margin of error. At a certain point you have a sufficiently large sample that there really isn't improvement by gaining additional sample size.

Q So there is not a linear relationship between sample size and margin of error?

A You know, I've never plotted that out. So I don't know if, over the portion, where there is a direct relationship between those two things, whether that's linear or not, but I can tell you that at some point the gains either become deminus or zero.

Q Is there a level of -- let me rephrase

Page 23 this. 1 2. Is there a point at which in a survey 3 result the margin of error becomes too large that the survey result is not considered to be sound? 4 I don't believe there's a bright line. 5 6 It would, again, depend tremendously on the purpose 7 and goal of the survey and the particular facts and circumstances underpinning that survey. 8 9 0 So, for example, in a presidential poll, a survey with a margin of error of plus or 10 11 minus 25 percent would not be that interesting, it 12 would not tell us a lot of things about what the 13 voters were preferring? 14 Α Is that a hypothetical you're 15 suggesting? 16 0 17 Without more details about what that survey was trying to illicit and what the results of 18 that survey were, I can't answer that question. 19 20 Do you have any experience or 21 background in analyzing home appliance energy 2.2 efficiency tests? 23 Α Yes. And what is the nature of that 24 Q background? 25

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A I've served as an expert, both a testifying expert and consultive expert on, I think five or more projects that have involved analyzing Energy Star or energy efficiency of major household appliances and looking at test results from -- from those particular engagements. The typical types of tests are also usually derived from public policy regulations, and I have substantial background in analyzing regulations and statutes, particularly as they relate to economic or statistical measures. And so I have the ability to interpret a set of rules for how to conduct a test and for whatever underpins that test and to understand how it should be conducted and how to interpret the results of that test.

Q So you are familiar with the Federal Government's test procedures for Energy Star?

I would say that this is an area where I probably couldn't recite all of those details from memory, but if we put the regulations out there, I am -- they are unfortunately complicated, but I think I could very easily walk you through them, given enough time.

Q Do you have any experience or background in predicting the useful life of an

Page 25 appliance?

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enough times that I feel very comfortable analyzing the work of other people who have made that calculation. I personally have not derived that calculation myself, but I've seen sources from -- industry sources. I've seen company-specific sources. This is something I'm very familiar with.

Q But you're not an engineer; is that correct?

A I'm not an engineer, but I feel very comfortable looking, for example, at survey results that have made a determination of the average useful lifespan of an appliance. I feel I have the expertise necessary to analyze that kind of data.

Q Have you ever analyzed -- analyzed actual testing of appliances in order to determine their useful life?

A I don't quite follow that question.

Q So, for example, I know that there are some groups out there that will run tests of appliances where they open and close the door to the appliance thousands of times or run a cycle of the appliance thousands of times in order to determine useful life.

Page 26 Have you ever examined that sort of 1 2. data? Again, what do you mean by "that sort 3 Α of data"? What is the result that you're talking 4 about? What is the data? 5 Have you examined and scrutinized any 6 7 tests designed to predict the useful life of an appliance? 8 9 That question just isn't any more clear to me. What I've said to you before and would say 10 11 again is that the results of analyses to determine 12 the average useful lifespan, those I have seen and 13 understand how to interpret those results. If you're asking about something different, then I'm 14 15 not following you. 16 Well, I would -- let me see if I can 17 draw a line between an engineering experiment 18 designed to determine the useful life of a 19 particular product versus a survey where people are 20 asked how long would you expect a particular product 21 Have you analyzed one or the other or both 2.2 of those types of analyses? 23 Α Again, I think I have seen the results 24 of -- I've analyzed the results of those types of 25 surveys. I haven't gone back and analyzed, for

example, how an engineer opened and closed the door a thousand times.

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Q Okay. Other than your work in this case, do you have any experience or background in evaluating the efficiency of clothes washers?

Worked on specifically as it relates to measuring these energy efficiency damages as I've done here, I've conducted a fairly broad study of the Energy Star program and the energy usage that goes into various appliances. So I don't know how to categorize that experience, but this was not my first time considering the issue of a washing machine and how washing machines use energy and how they qualify for the Energy Star. I was aware of that and had reviewed other studies of energy use and Energy Star certification as it relates to washing machines.

Q Sure. Just to clarify the question.

I'm -- I'm aware that you have worked on other

Energy Star cases, but the question is, do you

have -- other than your work on this case, do you

have any experience or background in evaluating the

efficiency of clothes washers?

A And what I'm suggesting to you is that

separate and apart from the cases that we're talking about, I have conducted independent study to have a better understanding of Energy Star appliance efficiency and how to make those measurements, and that has included analysis of clothes washers.

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Q Well, I -- I think I'll need more detail on this independent study of the energy efficiency of clothes washers. So tell me what -- outside of the context of this case, what independent study have you conducted to evaluate the energy efficiency of clothes washers?

duplicated here in this case, but it's involved an analysis of the Federal regulations that govern the energy efficiency standards of clothes washers, reviewing other peer-reviewed studies that have addressed the energy efficiency of clothes washers, looking at elements relating to Energy Star certification of clothes washers. I -- I consider that part of my background, experience, my 12 to 13 years of experience that I bring to bear here today.

Q When did you commence your independent study of the energy efficiency of clothes washers?

A I would say that my study of Energy Star and energy efficiency as it relates to

appliances has been ongoing for several years. I couldn't tell you the date that I first gave that consideration be, but three years or more I would say.

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Q And what was the purpose of this independent study?

A To educate myself and provide myself with the necessary tools to evaluate the energy efficiency of various appliances, to make a determination about Energy Star certification and to have a general understanding of those topics.

Q Well, this case was filed in 2012. Did you, at any point prior to the filing of this case, conduct an independent study as to the energy efficiency of clothes washers?

A Again, I don't remember the precise date, but I can state with certainty that my studies predated my engagement in this case, which was not as early as 2012.

Q When you -- when you speak of this independent study, you have -- have phrased it in terms of studying Energy Star and Federal regulations. Was there a particular emphasis on clothes washers at any point prior to your engagement in this case?

A Again, my studies were of appliances generally, and there were particular elements that were specific to clothes washers and particular elements that were specific to, say, refrigerators and these things are related, so it made sense to study them together.

Q What particular elements of -- about clothes washers stood out to you at that time?

MR. DECKANT: Objection.

THE WITNESS: I don't quite understand.

That seems very broad.

BY MR. LOGAN:

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Delieve that you said that there were particular elements about clothes washers that you studied as part of your independent study in the -- in this case -- before this case. And so I'm just asking what were those particular elements about clothes washers that you recall studying?

A I think you've -- I apologize if I've miscommunicated, but it seems that you've misunderstood what I indicated to say, which is that parts of my study related to clothes washers and parts of my study related to other appliances.

Those fields of study to me are -- they go hand and

hand, and so it makes sense to conduct those studies together.

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But what I remember about the issues relating to the energy efficiency of clothes washers are things about electrical usage as it relates to operating the machine, using hot water, drying clothes, how to convert various Federal standards like the energy factor or water use factor into energy equivalent units, such as kilowatt hours or therms of natural gas. Again, many of the things that I have been able to bring to bear in this case.

Q It seems from your description that your study was mainly focused on the Federally regulated laboratory tests of clothes washers; is that correct?

reasonable characterization. I would say that that's an element that I certainly studied, but how washing machines operate and use energy is something that I understand independent from how, for example, the Federal Government, the U.S. Department of Energy, which as I go on today I'll probably just abbreviate as DOE, how the DOE might test those things. I think those are related but independent topics that I have an understanding of.

Q So there's a difference between how the DOE would measure the energy consumption of the clothes washer in a laboratory and how a consumer would use it in their home?

MR. DECKANT: Objection.

what I intended to impart with my previous answer. What I had intended to suggest was that you can have an understanding of how clothes washers operate and use energy. For example, electricity to spin the -- the clothes or energy to heat hot water, independent of how the DOE might conduct testing. But I understand the purpose of the DOE testing to provide information that is directly applicable to consumer use of the products.

BY MR. LOGAN:

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Q And this last phrase in your previous answer that the purpose of the DOE testing is to provide information to consumers that is useful, what do you base that statement on?

A There are a lot of things. I think the most obvious one is the process by which we've wound up here today, which is that the DOE tests

Page 33 appliances and can make a determination about 1 2. whether or not they appear to be Energy Star 3 qualified. When they find an appliance that claims to be qualified but they believe is not, they 4 typically refer that analysis to the U.S. 6 Environmental Protection Agency, or EPA, and the EPA 7 can then revoke the Energy Star qualification of an appliance, and that has a direct connection to 8 9 information that's provided to consumers. I think 10 it's undisputed that the Energy Star logo is one of 11 the most highly recognized logos by consumers and 12 that it's very important as consumers make decisions 13 about appliances. To what extent or in what ways is the 14 15 DOE testing of clothes washers different from the way an ordinary consumer uses it? 16 17 I think the DOE testing is designed to be representative of how consumers as a whole use 18 their clothes washers. 19 20 And what do you base that statement on? Q 21 Α Again, the way in which the DOE tests 2.2 are used. 23 For example, have you seen --Q 24 MR. DECKANT: Just object. Please let the witness finish his answer. 25

BY MR. LOGAN:

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Q Sorry. I thought you were done.

A If you look at how the DOE tests are used, they're used to provide informations to consumers as a whole. The DOE tests are used, as I understand it, to provide, for example, Energy Star certification or decertification across an entire suite of appliances and not just to one single appliance or for one single consumer or for consumers in New Jersey but not California.

So, again, it's my understanding that these results are intended to be representative of a broad swath of consumers and decisions are based upon those that apply to, I guess, every appliance or in that sense every consumer who was purchasing that appliance.

Q Have you seen a document that has stated that the DOE tests are designed to be reflective of real-world use, or something of that nature?

A I think the documents that I've reviewed speak for themselves, and if you'd like to mark them, we could go through them. But I believe, if you take a holistic approach of the review of the documents, even just extant in this litigation, what

I've suggested will become apparent, which is that there's a clear intention for these tests to be applied across an entire range of appliances and to be representative of all consumers that are -- are buying these appliances as a whole in the aggregate.

Q Sitting here today, you cannot recall a particular document that says the DOE clothes washers tests are designed to reflect real-world use?

MR. DECKANT: Objection.

THE WITNESS: Again, what I've said is
I believe the documents will speak for
themselves. And as I said earlier today, I
don't have, you know, a library in my brain of
each document. Many of these are things just
Bates numbered so I can't recall the precise
titles of documents, but I believe a holistic
review of the documents that I cite in
Exhibit 2 to the Declaration that's marked as
Deposition Weir-1 will provide context to
understand that the DOE tests are designed to
be representative and projectable across a
large group or the totality of consumers.

BY MR. LOGAN:

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Q Well, my -- I quess my problem with

this testimony is I've reviewed the Declaration and the documents that you refer to it, and I don't see a document that says the DOE tests are designed to reflect real-world use. So I'm asking you, giving you an opportunity, if you are aware of such a document, can you identify it? And feel free to confer with your report.

I mean, I can look at my report, but Α again, what I would refer you and the reader of this transcript to is what's marked as Exhibit 2 to deposition Weir-1, which is my exhibit of facts, data and other information considered, which unfortunately includes a number of documents that are simply titled by Bates number. And as I sit here today I don't have a precise recollection of what each of these documents is or the exact contents of each one. But I believe if you conduct a holistic review, by which I mean don't just look at one page of any one document but look at all the documents in totality, the implication is clear, which is that the DOE test results are intended to be applied to an entire range of appliances across all of the consumers.

Q Again, sitting here today, you cannot identify a single document that says the DOE tests

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Page 37 are representative of consumer use? 1 2. MR. DECKANT: Objection. THE WITNESS: You can ask me that 3 question as many times as you want and what 4 I've said today is that I don't have a 5 6 photographic memory of what's in each one of these documents, but if you look at the documents in a holistic approach, not just any 8 one page or any one document but all of the 9 documents that I've cited in Exhibit 2 to 10 Deposition Weir-1, I think the result is plain 11 12 as day, that the DOE results are intended to 13 apply across a broad range of appliances and not just a single one and that the results are 14 15 intended to be informative to all consumers in 16 the aggregate. 17 BY MR. LOGAN: Have you ever recalled seeing a 18 statement that the DOE tests for clothes washers are 19 20 representative of consumer use? 21 MR. DECKANT: Objection. 2.2. THE WITNESS: I've certainly had that 2.3 impression since the very beginning of my work 24 on Energy Star analyses. Again, as I've said 25 earlier today, I don't have a photographic

memory. I don't have all of the documents
I've ever read in mind, but to me there is
just zero doubt based upon my experience all
the documents and studies that I've read, the
implementations and use of these DOE tests
that these results are intended to be
projected to a large group of consumers.

BY MR. LOGAN:

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Q You have had that impression, but do you ever recall seeing the document that stated that, or that is just your own independent conclusion based on your research?

A This is the impression that I have from reviewing many documents related to that topic. But I can't cite a particular one as part of a memory quiz here today.

Q What have you done to determine if DOE laboratory tests are reflective of real-world use?

A I have relied on the purpose of the DOE tests.

Q What is the purpose of the DOE tests?

A The DOE tests that are specific to this case are to make a determination of whether or not an appliance qualifies as an Energy Star product or not.

Q Have you done any analysis to determine if the DOE tests are reflective of real-world use?

A I don't believe I've conducted any independent tests. I'm relying on the Federal Government who uses these test results to apply them to every one of the appliances and to all consumers nationwide.

Q Has the Federal statement stated that the DOE test are reflective of real-world use?

MR. DECKANT: Objection.

THE WITNESS: Again, my understanding from a review of documents in this case and in other cases is that these tests are reflective of the use of all of the appliances that are the subject of a particular test and are designed to provide information to a broad group of consumers who have purchased or may purchase these appliances.

BY MR. LOGAN:

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Q Let me see if I can break this down into particular testing elements and ask the question that way.

For example, the -- according to your report, the DOE estimated number of annual cycles for the clothes washers is 392 cycles per year. Are

Page 40 you aware of that? 1 2. Α I am. 3 Where did the DOE get that number, 392? 0 There is a regulation that provides for 4 Α that number. 5 Where did they get that number? How 6 0 7 did they decide 392? Who is "they"? 8 Α 9 0 The DOE. 10 Α I believe the DOE has taken that number 11 directly from the statute that proscribes the method 12 of testing. 13 So you are -- you believe that Congress wrote a statute that says that this testing should 14 15 assume 392 cycles per year? 16 MR. DECKANT: Objection. 17 BY MR. LOGAN: Is that your testimony? 18 Q 19 Α I'm saying that there is a statute 20 or regulation that provides for that number and that 21 the DOE test uses the various inputs from the statutes or regulations when it conducts its tests. 22 23 Right. So my question is, who came up 0 with the 392 number? Was that a survey? Was it a 24 quess? Where did 392 come from? 25

Page 41 As I sit here today, I don't have a 1 recollection of that. 2. 3 Has it always been 392, the DOE clothes washer test? 4 I would say the same answer. As I sit 5 6 here today, I don't have a recollection one way or the other. Is it still 392 to this day for clothes 8 Q washers being manufactured today? 9 I haven't made an investigation one way 10 11 or the other. 12 Do the named plaintiffs in this case, 13 did they use 392 cycles per year? MR. DECKANT: Objection. 14 THE WITNESS: I'm not interested in 15 what any one individual has done. My analysis 16 17 is tailored to a class of people, and my 18 understanding, again, of the DOE tests is that 19 it's using inputs designed to measure 20 appliances across a broad swath of users. so I believe that that's the correct level of 21 22 analysis. BY MR. LOGAN: 23 But the answer is you're not aware of 24 Q any individual plaintiff in this case who uses 392 25

cycles per year; is that your testimony?

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A That is the wrong level of analysis so I haven't sought to understand that.

Q Is it your belief that the putative class members as a whole use on average 392 cycles per year?

A I believe that the DOE test result and the DOE tests are designed to be projectable to a large group of consumers and that the 392, based upon its use and determination by the Federal Government is a reasonable estimate for use in measuring the energy efficiency of washing machines.

Q Other than the fact that the DOE had at least have signed off on the 392 number, do you have any other reason for believing that 392 is a reasonable number to use in this case?

A I don't believe, as I think I've said already today, that I've made an independent verification of that number. I'm relying on the fact that that is a statute -- a statutory -- statutorily provided number or that that number appears in a regulation, that that was determined by some element of the Federal Government, that that is a requirement of the DOE tests and that that test is designed to provide information that is applicable

across a broad range of appliances or a broad range of consumers, depending upon how you want to look at it.

Q Did you make any evaluation in this case of how the energy consumption of a clothes washer might fluctuate over time? For example, how the energy consumption of a clothes washer might fluctuate from year to year as it gets older?

A My analysis was focused on the delta between what was promised versus the delta of the test results and not, again, on any particular one washing machine.

Q And not on any particular one year?

For example, you did not analyze what would the delta be from year to year or how would a clothes washer age?

A I think that's something that I've considered and my understanding of the nature of the DOE test result is that it's -- the DOE test results are designed not just to apply to one year, but to the entire lifespan of the clothes washers. And so the -- when, for example, the Energy Star is revoked as a result of a DOE test, it doesn't come back for retesting a year later. My understanding is that a disqualification and less challenged is permanent.

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Q When a clothes washer is tested pursuant to the DOE regulations, is it a new clothes washer or an old clothes washer?

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A As I sit here today, I don't recall. I believe the DOE tests would make that plain.

Q It would not surprise you if I represented to you that testing is done of new clothes washer, not 10-year-old clothes washer?

A Well, I would find that these appliances tend to only be sold over a period of a number of years, so I would assume that the DOE tests are going to be conducted within at least the early portion of the lifespan of these appliances.

But, again, that doesn't change my opinions about how the DOE tests are designed and employed, which is to study an entire range of appliances for a broad range of consumers for the lifespan of the appliances.

Q Did you conduct any evaluation in determining how the energy consumption of a clothes washer might differ depending on individual consumer use?

A Again, I would advise the reader of the transcript that for purposes of determining class-wide damages, any individual level inquiry is

Page 45 wildly inappropriate and that the appropriate level 1 2. of analysis here is the energy efficiency of these 3 appliances in the aggregate across the class or across the totality of the population. 4 Okay. So let me see if I can sum up 5 the last few minutes of testimony. You did not 6 conduct any individual analysis of how any individual consumer would use their clothes washer? 8 9 MR. DECKANT: Object to form. 10 BY MR. LOGAN: 11 Is that correct? 0 12 My analysis has been focused in what I 13 believe to be the correct level of analysis, which is to do an analysis on a class-wide basis and that 14 15 any individual analysis would be inappropriate 16 because it does not inform an aggregate level 17 analysis of class-wide damages. 18 Your focus is on class-wide analysis, 19 not on any one individual consumer; is that correct? 20 А That's correct. 21 0 And --2.2 Α That's my assignment in this case. 23 And the way that you would conduct a 0 24 class-wide analysis is to rely on DOE methodologies and test results, not your own independent test 25

Page 46 results; is that correct? 1 That question unfortunately seems a 2. 3 little overbroad. Would you mind narrowing that down, please? 4 5 The way that you conduct a class-wide 6 analysis in this case is by relying on DOE 7 methodologies and test results; is that fair? That is one of the ways in which I 8 Α 9 examined damages in this litigation. 10 Other than relying on the DOE tests, 11 did you conduct any independent evaluation of how 12 consumers actually use their clothes washers? 13 Α I don't believe that to be necessary in order to calculate class-wide damages. 14 15 0 So the answer is no? 16 Again, I would not look at what any one 17 individual is doing at all. I would look at what 18 consumers in the aggregate or the class is doing, 19 and I believe that the DOE results provide the best 20 available measure of that. 21 0 So the answer is no? 2.2 Α I standby my previous answer to your question. 23 24 O Which I construe is no because you don't actually say no, you just explain why the 25

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Page 47
     answer is no, but you don't actually say no?
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                  MR. DECKANT: Objection.
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                   THE WITNESS: I don't accept your
           characterization of my testimony. I would
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           like my full answer to stand on the record,
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           please.
     BY MR. LOGAN:
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                  Well, the question was, did you conduct
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     any independent evaluation of how consumers actually
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     uses their clothes washers. Your answer was, I
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     don't believe that's necessary. Isn't that fair?
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                  I don't think that's the whole answer
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     that I gave.
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           Q
                  Okay.
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                  And so it's not fair that you are
     trying to mischaracterize my testimony.
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                  MR. LOGAN: Why don't we -- why don't
           we take five minutes. Is that all right?
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                  VIDEO OPERATOR: The time is
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           approximately 10:15. We're going to go off
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           the record.
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                   (Brief recess.)
                  VIDEO OPERATOR: It's approximately
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           10:29.
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                   We are back on the record.
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BY MR. LOGAN:

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Q Mr. Weir, we have been talking about the DOE tests, whether or not those are reflective of the putative class here in this case. We talked about the cycles per year. But there are other aspects of the DOE tests I would like to determine if it is your opinion whether or not those aspects are also reflective of the behavior of the putative class in this case.

Are you aware that the DOE tests require a certain mix of water temperature settings to be used?

A I am aware of that.

Q You probably don't recall. I don't even think I recall. Do you know what those mix of water temperature settings are?

I used the word "statute" and "regulation" because I'm not quite sure, but in whatever the guidelines are that govern how to do the test, I have read that and at one point became more intimately familiar with those settings than I care to admit, but as I sit here today, I would need to look at that document again to remember what the settings are.

What I do remember is that the guideline is very

Page 49 direct, that you look up the type of machine. 1 2. think typically these things are keyed to capacity, and then there's typically a lookup table based upon 3 either those or other factors that tell you which 4 settings to use for the test. 5 How is it that the DOE determined to 6 7 use this particular mix of water temperature settings? 8 9 MR. DECKANT: Objection. 10 THE WITNESS: Again, my understanding 11 is that the DOE tests are based upon the 12 settings that are prescribed in those statutes 13 or regulations. BY MR. LOGAN: 14 15 So I will represent to you it is regulations --16 17 Α Okay. -- and I realize that the DOE is 18 0 19 referring to those regulations. My guestion is, do 20 you know how those regulations were drafted and what studies were done in order to substantiate their 21 2.2 chosen mix of water temperature settings? I don't have a specific recollection, 23 Α but, again, it's my understanding that these tests 24 are designed to be representative of both -- all of 25

the -- all similar appliances and to be projectable to a wide range of the population. Sort of an aggregate group such as the class.

Do you know when the mix of water 0 temperature settings in the DOE regulations was drafted?

I don't have a recollection one way or the other as I sit here today.

0 Do you know if consumers' clothes washing habits have changed over time, say in the past 20 years?

I haven't made a study of the past 20 years because my understanding is that the proposed class period here starts sometime in 2009 at the date of first sale. And I used the statutes and regulations that were applicable at that time to evaluate the particular washing machines that are the subject of this particular litigation.

And, again, I understand that it's the DOE's intention to have results that are applicable to an entire fleet of appliances and that those results are projectable to the broader population.

When you say "they're projectable to Q the broader population," what do you mean by that?

> That the information in the aggregate Α

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Page 51 is reflective of the larger population. 1 2. Q Is reflective. And so it's your testimony that the DOE examines the population of 3 the United States and that's how they arrive at 4 their test procedures? 5 No. Again, my understanding is that 6 7 the DOE follows test procedures that are set forth in, as you have affirmed me, as a regulation. 8 9 0 Yes, but I believe it was your testimony that the DOE was trying to capture what 10 11 consumers actually do in their clothes washing 12 habits; is that your testimony? 13 Α My testimony is that the -- the DOE test results are designed to provide information 14 15 that is useful to consumers in the aggregate. All right. Well, I -- I think we're 16 17 going in circles here. 18 Regardless of whether or not the DOE 19 test results are reflective of the putative class 20 here, the -- you -- you admit, at least, that you 21 rely on the DOE test results in determining the energy expense damages in this case? 2.2 The DOE test results are one of 23 А 24 the core elements of the energy expense damage 25 formula that I put forth here. Although I would say

that the methodology that I put forth here is quite flexible, so if there were an alternate measure of actual energy used versus the Energy Star promised use, it would be very easy to take my methodology and take that different input and obtain a result. And, in fact, my workpapers are formulaic so we could put in any result of the tested use of the Maytag Centennial washing machines at issue in this case and obtain a result using the identical methodology that I've put forth.

Q So are you advocating for the position that the DOE methodology is the proper measure of energy expense damages in this case?

A That's a bit of a tricky question. My tasks in this case, up to now are I think at a high level could be described as two-fold. One of which was to make a determination about whether or not class-wide damages could be calculated in this case, and the second would be to make an effort to make a preliminary estimate of those damages. And so the methodology that I set forth for calculating energy expense damages, as I just testified a moment ago, can use any measure of the actual usage of -- actual energy usage as tested of the washing machines at issue in this case. But I believe that the DOE test

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Page 53 results provide a reliable and reasonable estimate 1 2. of use for purposes of calculating class-wide 3 damages and I base my preliminary estimate of energy expense damages upon, in part, the DOE test results. 4 5 But, again, if new information or 6 different test results became available, I would 7 need to consider them before I made a determination about whether they were better or more reliable than 8 the DOE test results. But I have no -- no problem 10 suggesting today that one reasonable method of 11 calculating energy expense damages in this case 12 would be to use the DOE test results. 13 Q When were you contacted to draft this report here labeled as Exhibit 1? 14 15 Α To be honest, I have no recollection. 16 Q Even the year? 17 Well, I guess, as asked when I was contacted to prepare this Declaration, I think I can 18 19 confidently say that was sometime in 2015, but what 20 month I'm not sure. 21 Okay. How long did it take you to 2.2 draft this report? 23 Can you tell me what you mean by the word "draft"? 2.4 Well, did you draft the report? 25 Q

Page 54 Again, I don't know what you mean by 1 Α the word "draft." 2. 3 Did you type the report? Q Yes, I --Α 4 On a computer software or program? 5 0 6 Α I literally typed the report. So if by 7 "draft the report" you mean "type," I probably -- I don't know that it took cumulative days, but it was 8 probably done over a matter of a few days. I'm just 9 10 talking about typing. 11 Okay. Well, let me -- let me ask a 12 couple of clarifying questions. Did anyone assist 13 you in the research or the drafting of the report? And, again, by the word "draft," you 14 Α 15 mean typing up, literally the typing of the 16 document? 17 Let me -- let me take a broader scope 0 of the word "drafting," anything from outlining to 18 19 typing to formulate -- formulating your opinions in this report, did you do it all by yourself or did 20 anyone in, for example, your office assist you? 21 2.2 MR. DECKANT: I'd like to caution the 23 witness that he can answer the question as to 24 whether anyone in the office assisted, but you should be careful not to reveal the content of 25

Page 55 draft reports that were not final and also 1 2. work product from within his office. 3 You can answer. THE WITNESS: And, again, with your 4 broadened definition of drafting, we're 5 6 talking about the creation of the words, not necessarily the numerical analysis or background research. I just want to make sure 8 9 we're talking about the same things. BY MR. LOGAN: 10 11 The -- did -- did anyone help you with 12 the report, other than counsel? 13 Α Well, again, "help with the report," I don't know what that means. If we're talking about 14 15 literally putting the words together in the report, then I would say nobody helped me with that. 16 17 words in this report are 100 percent my own. 18 characterization that I was helped by counsel is inaccurate. 19 20 I didn't mean to characterize that 21 counsel helped you. How many -- you are currently employed; is that correct? 2.2 23 Yes, I am. Α 24 Q What is the name of your company? 25 Α Economics and Technology, Incorporated.

Page 56 I think we can agree to abbreviate as ETI for the 1 2. day. And how many people are employed by 3 Q ETI? 4 Α Four. 5 Who are those people? 6 0 7 Dr. Lee Selwyn is the founder and president of the company. Myself, I am 8 9 vice-president of the company. Andrew Kearns is my 10 economic analyst. And Emily Stein is our accountant 11 and bookkeeper. 12 Did any of those people help you in 13 formulating your opinions as reflected in your report? 14 15 I don't think anyone assisted in the 16 formulation of my opinions in this case. Mr. Kearns 17 did assist with some of the background research. 18 Q Who did the, for example, calculations that appear in these tables? 19 20 Α Those would be done by me. Did you use a calculator did you do it 21 0 22 by hand? In these tables? 23 Α 24 Q Let me refer to Table -- for example, 3 25 and Table 4 on pages 7 and 8 of your report.

Page 57 you do those calculations? 1 2. Α Yes. 3 0 And -- and the calculation we're talking about here is multiplication? 4 Well, I would like to clarify your use 5 6 of the term of "calculations" because, for example, the number of units, although it appears here is the result of a calculation. The annual use difference 8 is the result of a calculation. The additional 10 energy expense number is the result of a 11 calculation. And then the total energy expense is 12 some multiplication of those calculated values. 13 did all of the calculations, but the manner in which they were performed is different. 14 Since this Declaration was filed on 15 December 28, 2015, have you revised your opinions in 16 17 any way? 18 I don't think I've seen anything that would cause me to revise my opinions. I guess as a 19 20 technical matter, when I was asked to draft this 21 report I was asked to consider the possibility of a 2.2 nationwide class. It's my understanding that subsequent to my execution of this document I 23 24 believe only seven subclass states were the subject of the class certification movement. 25

Page 58 So some of the numbers here that I 1 2 present on a nation-wide basis, I think they're 3 still helpful as an illustrative measure and for walking through the calculations, but I would refer 4 the reader of this transcript and the reader of my 5 6 report to the appendices where I have state specific calculations for the numbers that are specific to the subclass states, actually extant to the 8 litigation. But as to my core opinions, I don't 9 think anything has changed. 10 11 And you are billing by the hour in this 0 12 case? 13 Α That's correct. And your rate is \$600 per hour? 14 0 15 Α That's correct. Now, when we spoke a few years ago your 16 0 17 rate was \$450 per hour. How long has it been 600?

Q Now, when we spoke a few years ago your rate was \$450 per hour. How long has it been 600?

Let me -- let me clarify. Is 600 your normal rate at this time?

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A My current rate for new projects is 650 an hour, but we -- but when we agree to work on a project, except in rare circumstances, specify the rates, and for cases that are ongoing for many years, we typically honor the rate that we put in here. So the \$600 rate that I have contractually

Page 59 agreed to for this case is still operative for my 1 work in this case. 2. At some point your rate was \$600, but 3 your current rate for new projects is \$650 per hour? 4 I would say that's a general summary. 5 6 We do have a provision. Sometimes we work for Government clients or others we have a discounted rate schedule. But my going rate, for example, if 8 you called me tomorrow and once, by the way, our 9 10 conflict of interest is over I would love to hear 11 from you to talk about potential engagements, the 12 going rate is 650. 13 Q I'll get right on that. Bursor and Fisher doesn't get the 14 15 repeat customer discount? 16 Α They do not. 17 Do you know how many hours you have billed on this project so far? 18 19 Α That is a knowable piece of 20 information, but as I sit here today, I don't know what the number of hours is. 21 2.2 Do you know, for example, if it is more Q 23 than 100? If you asked about a smaller number, I 24 Α 25 could probably say that it was more because I

Page 60 remember some days pouring over the statutes and 1 2. regulations and doing the calculations, but I don't know whether it's more or less than 100 hours. 3 And the principal of ETI, Dr. Selwyn Q 4 was it? 5 6 Correct. S-E-L-W-Y-N just so the 7 record is clear. Did Dr. Selwyn review your report? 8 Q 9 These days it's relatively rare that he would review a Declaration that I submit. But, 10 11 again, I would defer to the time records in the --12 in the project. I can't state with certainty that 13 he would not have read over it. Why don't we turn to the back of your 14 0 15 report where you list the cases that you have worked on in the past few years. This list, I know, has 16 17 grown considerably in recent years. 18 How many times have you worked with counsel in this case? 19 20 I don't know off the top of my head. Ι 21 think my statement of qualification speaks for 2.2 itself. 23 It would not surprise you to learn 24 that, in fact, you've worked with counsel on this 25 case more -- more than 10 times?

Page 61 I think my first engagement with the 1 2. Bursor firm dates back to 2004, so having one or two engagements a year, on average, does not surprise me 3 in the least. 4 Of all the cases that you list, say, 5 6 for example in the past two years, do you know what 7 percentage of those cases have involved at least one of the counsel here? 8 9 Α Again, I think the document will speak for itself, but I don't know that percentage off the 10 top of my head. 11 12 Would it surprise you to learn that 13 about half of your engagements over the past two years have involved counsel here? 14 15 Given that there are half a dozen law firms engaged in this project, I would take your 16 17 word for it. Again, I think the document will speak 18 for itself. 19 In -- in your professional life, you act as a expert witness and consultant for 20 21 attorneys, correct? 2.2 Α That is one of the rolls that I have. 23 What other rolls did you have in your 0 employment, say, in 2015? 24

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and statistical and data analytic consulting services which we provide to private businesses, which we provide to regulatory agencies. We take on projects that relate to public policy and regulation, and one of the things I guess that this record should probably reflect is that we've been talking about, in the past couple of questions and answers, my statement of qualifications, which is Exhibit 1 to Deposition Weir-1. And the list of cases that you refer to are cases where I have made a public appearance as a testifying expert. And that does not reflect the individual engagements or projects that I have worked on where I don't provide public-facing testimony.

So, for example, my firm has long-standing relationships with the U.S. Department of Justice, the Pennsylvania Department of Revenue, the California Public Utilities Commission, the Illinois Attorney General -- Illinois Attorneys -- sorry, Illinois Attorney General's office.

And we do a lot of work for those clients and I work directly with those clients, but rarely in a testifying capacity. So there are dozens of projects that I've worked on over the past few years that are not directly reflected here in

the list of testimony and are reflected referentially in the opening description of my qualifications and typical work.

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Q Thank you for the clarification.

If you had to divide your time in 2015 generally between working with lawyers on litigation and other types of professional activities, what would that breakdown be?

A In 2015 I probably spent between 40 and 50 percent of my time working on litigation and between 50 and 60 percent on other endeavors.

Q And among your work on litigation, my review here shows that it is almost exclusively for plaintiffs' lawyers in putative class actions; is that accurate?

A I would say recently my litigation experience has been in class action experiences and I would also state that my firm is open to any particular client that we feel we could reasonably work with, including defendants. And as I stated before just moments ago, after I no longer have a conflict of interest, I would be more than happy to discuss engagements with you. But the work that is typically requested of us comes from counsel for plaintiffs as it relates at least to the litigation

work in which I'm involved.

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Q When was the last time you were hired by a defendant in a litigation?

A Many of the times that I'm involved in litigation for a defendant, I do not serve as a testifying expert. So, again, this statement of qualifications and list of testimony doesn't reflect all of the times that I've worked, but I would say within the last two to three years we have worked for a major defendant in litigation.

Q The way you phrased that, you've had work for "a major defendant in a litigation," are you talking about a single engagement or multiple engagements for defendants in litigation?

A Well, again, without my list of projects in front of me, it's hard for me to remember the precise time frame of everything I've done, so I'm confident in telling you that recently there is definitely at least one. But whether that's more than one in the last year or two, it's hard for me to state with certainty. But we regularly receive requests to work with defendants and sometimes we have the opportunity to testify on behalf of defendants.

This statement of qualifications does

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include sometimes when I have testified on behalf of defendants. And, again, I have no predilection for working with plaintiffs per se. I'm more than happy to take work for a defendant and to testify about economics, statistics, public policy, regulation, whatever the particular project may be.

Q When you are engaged for a plaintiff in a putative class action, are you typically hired to do damages modeling?

"typical." We -- our engagements are almost always to provide a general suite of economic research and litigation support services. In class action litigation, that may or may not include work on the issue of making a determination about the possibility of or actually calculating class-wide damages. There are numerous engagements that I have with plaintiffs that don't relate to the calculation of damages.

Q How many reports over the past -- well, over the course of your career, have you filed that have provided an opinion on whether or not class-wide damages could be measured?

A Can I hear that question back, please?

(At which time the following question

was read back by the reporter:

"Question: How many reports over the past -- well, over the course of your career, have you filed that have provided an opinion on whether or not class-wide damages could be measured?")

MR. DECKANT: I would like to caution the witness that some of those cases may have involved confidentiality agreements. To the extent that you can answer it without violating those agreements, go ahead.

THE WITNESS: Unfortunately I'm not even going to get to that particular type of issue because without doing some amount of research as I sit here today I can't answer that question. I just don't know off the top of my head.

BY MR. LOGAN:

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Q Well, it is fair to say that you've filed several reports in litigation, many of which are listed here, that opine the class-wide damages can be measured.

A I think it's a matter of public record that I have submitted some reports in some cases where I've testified that class-wide damages can be

Page 67 calculated. 1 2. Q Have you ever submitted a report that said class-wide damages could not be measured? 3 I have never been hired by a client who Α 4 was interested in having me state that opinion on 5 6 their behalf. I quess I would clarify and say there are numerous class action engagements where I'm asked to make a determination about whether damages 8 may be calculated and I make the determination that 9 10 they cannot. I don't know that those efforts have 11 ever resulted in public testimony. 12 So, for the testimony that you have 13 given publicly, it has always been your opinion that for the facts of that case class-wide damages are 14 15 capable of class -- of measurement? And I'm going to need to have you read 16 17 back that question. 18 Q Let me rephrase that one. 19 In the testimony that you have given 20 publicly, it has always been your opinion that class-wide damages are capable of measurement? 21 2.2 Α Again, the way that question is phrased, I don't believe that's correct. 23 And specify what you mean by that 24 Q 25 answer.

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A Well, I've worked in any number of engagements, for example, that don't involve a calculation of class-wide damages at all, and so I've offered no opinion about class-wide damages one way or the other.

Q So let me -- let me clarify then.

In putative class actions, when -- when called upon to provide an opinion about whether or not class-wide damages can be measured, you have always answered in -- that the answer is yes, that they are capable of being measured?

A Again, I don't think that's quite accurate. I've been asked many times to evaluate whether class-wide damages are possible to be calculated in a number of cases. And in some cases I make the determination that the answer is yes. And in some cases I make the determination that the answer is no. And in the cases where I have made the determination that it's possible to calculate class-wide damages, sometimes I'm asked to testify; other times I'm not. And in cases at least thus far where I've made the determination that class-wide damages may not been calculated, I've not been asked to testify.

Q When was the last time that you

Page 69 developed an opinion that class-wide damages could 1 not be calculated? 2. 3 It was the day before I left for my Α paternity leave. So I think it was the middle-ish 4 of March. 5 And in that instance what were the 6 7 reasons why class-wide damages could not be measured? 8 9 Α The conversations that I had with that potential client are subject to non-disclosure, so I 10 11 can't tell you. 12 Other than conversations that you can't 13 tell me about, can you recall an instance where class-wide damages could not be measured, in your 14 15 opinion? 16 I don't think I've ever made a 17 determination about class-wide damages that hasn't 18 been covered by an NDA or protective order. 19 Generally, what sort of facts would Q cause you to opine that class-wide damages could not 20 21 be measured? 2.2 MR. DECKANT: Objection. THE WITNESS: Those things are so case 23 24 specific, I'm not sure I can provide you with 25 a broad category of things.

BY MR. LOGAN:

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Q Well, in your opinion -- let me rephrase.

In your opinion, is it ever the case that individual damages are so disparate from one another that class-wide damages cannot be calculated?

A I'm having a hard time with that question for a couple of reasons. One of which is that at least in the back of my mind, it sounds like there may be questions of the law. And so I'm not a lawyer and I'm not here to give legal testimony here today, so I don't know whether, as a matter of the law, there would ever be a case where individual damages and variations therefrom would legally prevent a measure of class-wide damages.

What I will say is that when I think about class-wide damages, I typically tend to take what I described as a tops-down approach, which seeks to determine damages without ever having to get at what individual damages are. There are exceptions to that, but to me oftentimes the best method of determining class-wide damages never requires a calculation of any individual's damages. And from that perspective, at least economically,

how you distribute money to individuals, for example, as part of a settlement or a claims administration, has no bearing on the calculation of class-wide damages. And even with widely divergent individual damages, they are going to sum up to something that, in total, is class wide.

So, again, I don't know whether there are legal prohibitions about that, but as a matter of economics, I don't think individual variation in damages prevents the calculation of class-wide damages, especially when one is conducting a tops-down analysis that never looks at individual damages in the first place.

Q So talk to me a little bit more about this "tops-down approach." It's your approach generally in putative class actions to only look at class-wide factors and never look at individual damages?

A Again, I apologize if my last answer wasn't clear. I would never make a broad-strokes comment that I only ever do tops-down approaches or only ever do things without looking at individual circumstances. The -- to contrast a tops-down approach, one way to calculate damages may be what I would describe as a bottoms-up approach, where you

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take Class Member A's damages and add them to Class Member B's damages and add them to Class Member C's damages and arrive at the total. And the bottoms-up and tops-down approach should result in the same calculation, and therefore to me there's no economic reason necessarily to choose one or the other. The tops-down approach is often faster and avoids the need for individual inquiry, which I understand is typically one of the goals of the calculation of class-wide damages. So the tops-down approach seeks to look in the aggregate at the class in total and that analysis is often simpler and more elegant than a bottoms-up approach.

Q And in this case you did a tops-down approach?

A Yes. All of the measures of damage that I propose in this case are tops-down calculations.

Q And why did you select a tops-down approach as opposed to a bottoms-up approach for this case?

A Again, as I said, I find the majority of cases, it is a simpler and more elegant approach to use a tops-down approach when your goal is to understand class-wide damages, which was my goal

Page 73 here. And the available data, the nature of the 1 2. types of damages all lend themselves handily to the tops-down approaches that I specify in my 3 Declaration. 4 In a product -- you've filed several 5 reports that are somewhat similar to the issues here 6 7 where the -- you were trying to determine the value of a particular product attribute. You've done this 8 9 many times; is that correct? 10 Again, I would probably rephrase that 11 to state that there are sometimes that I have 12 calculated the value of an attribute, which is one 13 of the things that I have done in this case. And how do you go about constructing a 14 0 15 damages model in a case like this? Well, "in a case like this," tell me 16 17 what you mean by that. 18 A case where there is an allegedly 0 19 false representation on a consumer product label. 20 So you're not being so granular as to 21 be reflecting an Energy Star issue or a particular energy element that can result in a different type 2.2 23 of damages? 24 Q That's right. 25 Α The tops-down approach at the highest

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level is going to be some measurement of the value of the representation or the impact of the representation. Sometimes it could be a price premium; other times it might be a diminution in value. And you take that measurement and multiply by the either total sales or relevant subset of sales for the class definition and you result the damages relating to the value of the attribute.

Q And how -- how does one go about calculating a price premium for a product attribute?

A That's very hard for me to say without more information. The very first thing I would want to do is understand the particular attribute in question, the facts and circumstances, but at the highest level the first things that come to mind are studies such as Dr. Dennis and Dr. Sukumar have performed, for example, using a conjoint or CVM survey to make a marketplace evaluation of the price premium attributable, for example in this case to the impact of the presence of the Energy Star when the product should not have borne the Energy Star. And an isolation of the price premium solely attributable to that attribute.

Q So would it make sense to say that in order to construct the damages model in a putative

Page 75 class action, you would need a model and you would 1 2. need data to populate that model? Generally, does that make sense? 3 Again, your -- your questions are so Α 4 broad strokes that I don't want to answer in the 5 affirmative because there's almost always an 6 exception to every rule. In this case you have a model and data 8 Q to populate the model? 9 10 MR. DECKANT: Did you finish your prior answer? 11 12 BY MR. LOGAN: 13 Q My apologies. I was just going to say -- well, I 14 Α 15 think my prior answer is complete enough that I can say in this case I have provided both models and 16 17 suggested data that can be used in those models; 18 although my typical caution is that the methodologies that I provide here are very flexible. 19 20 And so if new or additional data becomes available, the methodologies that I had provided are plug and 21 22 play. 23 So, for example, if we have a different measure of the price premium attributable to the 24 Energy Star, that's very easily plugged into the 25

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methodology that I provide here, and I have a spreadsheet that would give us an answer based on upon that new data point in a matter of seconds. Similarly with the energy expense damages, if we had new testing data or some other input that we wanted to use, it would be very easy for me to get a result based upon the methodology that I've set forth.

Q So we've been talking about the tops-down and bottoms-up approach for a putative class actions. How would your approach change if you were calculating damages for one plaintiff in this case instead of the whole class?

A At this time I haven't been given that assignment. I've given it no consideration, and I can't answer that question as I sit here today.

Q So to clarify, you -- you have -- you have not thought about how to calculate any one individual's damages in this case?

A That's correct. My assignment was to calculate class-wide damages. I don't believe one needs to understand any one individual's damages in order to understand class-wide damages, and any one individual's damages had no impact on the total calculation of class-wide damages when measured, at least through a tops-down approach. And so I don't

Page 77 need to understand and have not taken to understand 1 2. any one individual's damages. Let me go back to this price premium. 3 0 When you work on an allegedly false labeling case 4 such as this one, your damages model might involve 5 the calculation of a price premium? 6 Can you just repeat that question for 8 me? 9 0 Sure. When you work on a labeling case such as this one, your damages model may involve the 10 calculation of a price premium? 11 12 It may involve the calculation of a 13 price premium. What does the term "price premium" mean 14 0 15 to you win the context of your work? You need to be more specific because my 16 17 work is quite broad. 18 Why don't we just make this about your Q 19 What does the term "price premium" mean in 20 the context of your report? 21 As I used the term in my Declaration in 2.2 this case, I referred to the amount in the 23 marketplace that consumers have actually paid as a direct result of defendant's behavior of labeling 24 25 their washing machines as being Energy Star

Page 78 certified when, in fact, they were not. 1 2. Now, in this answer you referred to the 3 amount in the marketplace that consumers have actually paid as being what you were trying to 4 measure; is that accurate? 5 6 Α Correct. And why is that important? 0 Because that's the measure of damages 8 Α 9 in the case as it relates to price premium damages 10 in that section of my report. But -- but why is it important to 11 12 determine what consumers actually paid? I'm not 13 trying to trick you. And I don't know that I have a better 14 answer other than I believe that's the measure of 15 damages that's appropriate for price premium 16 17 calculation. You're familiar with the term 18 "part-worth"? 19 20 Α Yes. 21 And is part-worth similar to a price 22 premium in the sense that you were trying to determine of -- the price of a product, what portion 23 24 of that price is attributable to a certain product characteristic? 25

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A A part-worth is one singular element that is the output of -- or typically the output of a conjoint survey. And I would not equate a part-worth at the highest level with the measure of a price premium, but I would state that given appropriate information, information about part-worth results from a conjoint can inform one about what the price premium attributable to a particular attribute is.

Q Is the price premium in this case, is that stated in terms of a dollar figure or a percentage? Or both?

A I believe I have focused on the price premium as a percentage in this case.

Q So the price premium is a percentage in this case, meaning that if Consumer A purchased the clothes washer for \$300 and Consumer B purchased the clothes washer for \$500, you would apply the same percentage to both consumers, or at least your analysis would not call for a different percentage depending on price?

A I don't think that's an accurate characterization because what I do with the price premium percentage is apply it in the aggregate across the total purchases of the class, not to any

Page 80 one individual. 1 2. Q You analyzed the average retail price of the clothes washer at issue in this case; is that 3 correct? 4 Α That's correct. 5 And I believe that you calculated that 6 0 7 average retail price to be approximately \$406? That sounds like it's in the right 8 Α 9 ballpark. We could go back and look at that 10 specifically. 11 Is it your opinion in this case that 12 the price premium for clothes washers is not -- as a 13 percentage is not dependent upon the calculation of the average retail price? 14 15 I'm going to need to have you repeat that. I was distracted in the middle of the 16 17 question. 18 Q Let me -- let me rephrase it. 19 Is the relationship between average 20 retail price and price premium, is it a linear 21 relationship such that the average price premium that you calculate could be applied no matter what 2.2 23 the underlying average retail price? I don't know that I could agree with 24 Α that proposition as stated so broadly. I would say 25

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that in this case I understand that the price premiums that were calculated were designed to focus on the actual prices that were paid for the Centennial washing machines, and I feel very comfortable, based upon my discussions with Dr. Dennis, Dr. Sukumar, my review of their declarations, my review of the documentary evidence, Whirlpool's own calculation of the price premium, that these premiums can be applied in the aggregate across all of the total purchases of the product to give a reliable estimate of the price premium damages extant in this litigation.

Q There are three price premium percentages that you note in your report, and I'll just refer you to page 16: 55, 48 and 44 percent, not counting the decimals.

Do you see that?

A Yeah. Those are the -- well, that's not 100 percent correct. You rounded. But those are the pre-decimal integer numbers that are listed in the table, the document and the price premium percentages speak for themselves.

Q Do you have an opinion as to which one of these numbers is correct? Or the most accurate?

A Based upon what I understand about

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these numbers, I believe all of these provide a statistically reasonable estimate of the price premium at issue in this litigation.

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Q Well, there's a difference between

44.3 percent and 55.7 percent to the tune of tens of
millions of dollars in this case; that's correct?

A I think if you apply each of those two numbers and then look at the difference in damages, yes, the difference is maybe roughly 20 million.

Q So you said all of these percentages are statistically reasonable, but did you develop an opinion as to which one is the most accurate?

A Again, what I'm saying is that I haven't made -- my determination is that one of these is not more accurate than the other and that they are all reasonable for consideration in terms of the calculation of damages. And, again, they're all inputs into the price premium methodology that I set forth. So a judge or jury could determine that any reasonable measure of price premium could be applied to this formula to obtain class-wide damages.

Q Well, if you were put on the stand at trial and you said -- and the question was, which one of these should the jury award, what would your

Page 83 answer be? 1 2. MR. DECKANT: Objection. 3 THE WITNESS: As I sit here today, because I have not yet been assigned the work 4 of making that determination, I don't know 5 6 that I have a particular opinion. I think I would advise the jury to consider the providence of each of these numbers, 8 Whirlpool's own calculation, the Dennis and 9 Sukumar surveys, to understand the testimony 10 of each of those experts, and that my 11 12 methodology can be applied reasonably with any 13 of these numbers and that the jury can make an informed decision about which one they choose 14 15 to award. 16 MR. LOGAN: Does anyone need a break? 17 I've kind of reached a point in my outline where that would be okay for me. 18 19 MR. DECKANT: Yes. 20 MR. LOGAN: All right. 21 VIDEO OPERATOR: Okay. The time is now 2.2 approximately 11:16. We're going to end 2.3 Videotape Number 1 in today's deposition of Mr. Colin Weir on Friday, April 22, 2016. 24 are off the record. 25

Page 84 (Brief recess.) 1 2. VIDEO OPERATOR: The time is now approximately 1:28. We are going to begin 3 Videotape Number 2 in today's deposition of 4 Mr. Colin B. Weir on Friday, April 22, 2016. 5 BY MR. LOGAN: 6 7 0 Mr. Weir, in your -- in an answer that you gave to a question I think about a -- an hour 8 ago, my apologies for going back this far, you -- I 9 10 believe that you were generally describing your 11 approach to damages modeling for a case like this as 12 trying to determine the delta between what was 13 advertised and what was delivered. Do you recall saying something like 14 15 that? I have a general recollection about a 16 17 line of questioning. Again, I think you've potentially misparaphrased and you've also defined a 18 19 case like this in other context to expressly refer a way to that type of damages. But I think the energy 20 21 expense damage calculation that I've put forward refers generally to the delta of what is implied by 2.2 23 the Energy Star certification and the measure --24 some measure of the actual performance as I've used here in a preliminary estimate the results of the 25

DOE testing.

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Q So to sum up for the energy expense damages here, you were trying to calculate the delta between what was implied by the Energy Star label versus what was the actual performance of the clothes washers here?

Maybe -- if I used that term "implied," maybe that was the wrong term. What I've used as -- as the measurement of the Energy Star use is the minimum amount of energy required in order to be Energy Star certified. So that's based on the then-extant Federal regulations that govern Energy Star certification.

So I understand actually that Maytag itself advertised these washing machines as being more efficient or at least have stated that they were more efficient than the Energy Star requires.

So another way that you might consider damages would be to take what Maytag had claimed about the product, but I think as a conservative measure here, using the -- the minimum requirement for Energy Star certification is a reasonable procedure.

Q Well, let's go back to this term
"implied." What does the Energy Star sticker look
like?

Page 86 Boy, it's actually been a while since 1 2 I've looked at that precisely, but I believe it's a star logo with a circle in it that says "Energy 3 Star" in script. 4 The sticker itself is -- it does not 5 contain numbers? That's correct? 6 7 Well, I would --It's an E and a star and maybe the word 8 Q 9 "Energy Star," that's what you're referring to? 10 Can we refer to that as the Energy Star 11 logo, because the Energy Star logo appears sometimes 12 in print, sometimes embossed on a product, sometimes 13 as a sticker, or I think they might be called grippers or some other types of attachments. So I 14 15 don't want to talk about just one way in which the Energy Star is present. So I think we can probably 16 17 agree on the definition of Energy Star logo. 18 The Energy Star logo itself does Q Okay. not tell a consumer exactly how much energy will be 19 20 used by the product? 21 MR. DECKANT: Objection. 2.2 THE WITNESS: The Energy Star logo in tandem with the Federal rules is sufficient to 23 24 tell at least how minimally efficient an

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appliance should be.

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Page 87 BY MR. LOGAN: 1 But the sticker itself without the 2. Q Federal rules does not contain that information? 3 4 MR. DECKANT: Objection. THE WITNESS: Again, I -- the sticker 5 6 provides a lot of information to the consumer, but the precise energy amount is not printed in the sticker. But I don't mean -- I would 8 9 not like that answer to be inferred as the 10 logo not providing that type of information to 11 a consumer. 12 BY MR. LOGAN: Because a consumer could look at the 13 Q Federal rules and -- and make a more precise 14 15 determination about what was implied by the logo? That is one thing that could happen. 16 Α 17 You're also familiar with the energy guide label which provides some specific numbers, 18 19 such as annual operating costs? 20 I am generally familiar with energy 21 quide labels and I believe I have reviewed the 2.2 energy guide labels at issue in this case. 2.3 And how did your review of the energy 24 quide label at issue in this case impact your analysis? 25

A In this case I'm not sure that it did impact my analysis. I would want to go through all of those steps because there were many steps to get from Point A to the final damages calculation. But again, the best of my recollection, without going through those steps is that the energy guide label at least is not a direct input into the damage calculation.

Q The Energy Star sticker by itself does not promise any particular level of energy consumption per year?

MR. DECKANT: Objection.

THE WITNESS: I don't agree with that characterization.

BY MR. LOGAN:

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Q So if I showed you an Energy Star sticker printed on a piece of paper, you could tell me what level of energy consumption per year was communicated by the label?

A Sure. I mean, if you give me some information about what product we're talking about, I think I could easily make that determination.

Q So if -- if I brought in a clothes washer and put it on the table and slapped an Energy Star logo on the front, you would be able to tell me

Page 89 how much energy this clothes washer would consume in 1 2. a year? 3 I could tell you the maximum amount Α that I would expect it to consume in a year. 4 What would you need to know in order to 5 make that determination? 6 7 The appropriate measure of the capacity of the washing machine. 8 9 0 And that information is not contained on the Energy Star logo? 10 I don't believe that information is 11 12 contained directly on the Energy Star logo. 13 Q How would you go about determining the capacity of the clothes washer? 14 15 I would look at various typical sources 16 for that information, or one might actually conduct 17 a test to determine the capacity. And where would you go to determine how 18 Q to conduct a test to determine capacity of a clothes 19 20 washer? 21 I believe we would be going back to the 2.2 Federal guidelines or regulations that specify the correct way to make that determination. 23 And --24 Q In this case I have reviewed, for 25 Α

example, the DOE testing that states the correct capacity used for the analysis of energy consumption.

Q So it's your conclusion that the DOE audit tests in this case stated the correct capacity for the clothes washer?

A I need you to define for me what you mean by "correct capacity."

Q Let me take that step by step. You're aware that the DOE conducted audit tests of the clothes washer model at issue in this case?

A Yes.

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Q And did you make any determination about whether or not the DOE correctly identified the capacity of the clothes washers at issues in this case?

A I've not made an independent verification of that. I am relying on the Federal Government, the U.S. DOE, to appropriately apply the regulations governing the testing of the washing machines that they measure.

Q Do you recall -- and I might be able to show you these documents later on -- that in the audit tests conducted by the DOE contractor in this case that there were two different results for the

Page 91 capacity that were off by, I think, one 1 one-hundredth of a cubic foot? 2. 3 Α I don't have a memory of that as I sit here right now. 4 Do you recall seeing any information in 5 this case that the DOE contractor admitted that they 6 measured capacity incorrectly in the audit test? MR. DECKANT: Objection. 8 9 THE WITNESS: I have seen no such evidence. 10 11 BY MR. LOGAN: 12 If you did see a document where the DOE 13 contractor admitted that they incorrectly determined capacity in this case, would that impact your 14 15 analysis? MR. DECKANT: Objection. 16 17 THE WITNESS: It would certainly not 18 impact my methodologies at all. I would need to review that document to make a 19 20 determination about whether the outcome of my analysis would be impacted by -- by that 21 2.2 information. BY MR. LOGAN: 23 So the methodology wouldn't change, but 24 Q the numbers might change, the calculation? 25

Page 92 It may or may not. I would need to 1 2. understand what was in the document in order to tell 3 you. Does the Energy Star sticker say that 4 0 the product will perform well? 5 Are you saying does it literally make 6 7 that statement on the logo? 8 Q Yes. 9 Α Those words are not literally on the logo. 10 11 Do you think that quality performance Q 12 is implied by the Energy Star logo? 13 Α I haven't made a particular study of that one way or the other. 14 15 What does the logo represent for -- in 16 terms of -- of clothes washers? 17 The one thing that I'm certain of is 18 that it has a precise meaning as to a minimum amount 19 of savings, energy savings that consumers can expect 20 from their appliance, but I haven't conducted a detailed study of all of the potential 21 2.2 interpretations of the Energy Star logo, nor is that 23 material to the particular damage methodologies that I set forth at issue in this litigation. 24 Do you know which Government agency 25 Q

Page 93 decides whether or not clothes washers can qualify 1 2. as Energy Star? My understanding is that often the U.S. 3 Α Department of Energy conducts testing, independent 4 testing of appliances. But I believe it is the U.S. 5 EPA that would then look at that information and, 6 for example, make a determination to decertify, for example, the Maytag Centennial washing machines. 8 9 0 How does a clothes washer initially 10 earn the Energy Star label? 11 Again, my understanding is that 12 manufacturers self-qualify appliances, or at least 13 provide their own test results to the EPA in order to gain certification. 14 15 Is it your understanding that Whirlpool 16 tested the clothes washers in this case in order to 17 certify them as Energy Star? I don't recall one way or another 18 Α 19 whether Whirlpool actually conducted appropriate 20 certification tests. 21 So you have not seen or did not rely on 2.2 any documents regarding Whirlpool's initial testing of the clothes washers? 23 You've got two questions in there. 24 Α Did you review Whirlpool's initial 25 Q

testing of the clothes washers?

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A I can -- as I sit here right now, again, some of these documents I haven't looked at for four months and my mind has been elsewhere. I can recall that I have seen what Whirlpool claims were the performance characteristics of the Maytag Centennial washing machines at issue in this case. But as I sit here right now, again, without going back to the documentary evidence, I don't know that I've seen particular evidence of a test, or how it was conducted one way or the other. I just don't have a memory.

Q So you have not made a determination, for example, that Whirlpool incorrectly tested the clothes washers at issue in this case?

MR. DECKANT: Objection.

THE WITNESS: I don't think I'm offering an opinion one way or the other. I am relying on both Plaintiffs' theory of reliability and an assumption that liability is ultimately established to understand that these washing machines should not have been certified as Energy Star, but I'm not offering an opinion one way or the other about whether that liability should be found.

BY MR. LOGAN:

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Q So you -- just to clarify, you are assuming, but you have not determined, as a matter of fact that every unit of this particular model number of clothes washer should never have been labeled as Energy Star?

A That is Plaintiffs' theory of liability, and any textbook on how to calculate economics damages will tell you that the first step in that process is to assume liability. So yes, I've made that assumption that liability will ultimately be established.

That said, these methodologies can be applied to the totality of the sales of Maytag Centennial washing machines, as I illustrate with nationwide calculations, or to any subset of those washing machines. So nothing would change in my methodology if I were told by the Court that, for example, a Texas and New Jersey class was certified and not other states. Or that a class from 2010 forward was certified.

Q Who determines what the Energy Star test procedures are?

A I think we've gone over this, which is that I don't have a recollection about how those

regulations are propounded, simply that the tests are governed by a set of regulations.

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- Q And I believe you've referred to them as DOE regulations?
- A I don't know which agency they belong to. I know that the DOE uses those regulations, but whether they belong to the DOE or not, I -- as I sit here right now I can't testify one way or the other.
- Q Do test procedures for Energy Star clothes washers, do those change over time, or have they always been the same?
- A I have a vague memory that those testing procedures may change. But again, my -- my memory of that is very hazy. So I would probably say I can't really recollect one way or the other as I sit here right now. I would need to go back and review the evidence that I looked at in this case.
- Q Do you know who determines the Energy Star cutoff level? And by that I mean how efficient a clothes washer has to be to earn the Energy Star label?
- A Such as what I mention in my

 Declaration, the 37 percent energy savings and

 50 percent less water based upon the Federal maximum standards.

Page 97 Do you know who makes that 1 determination of 37 and 50? 2. 3 Α As I sit here right now I don't recall one way or another. 4 Do you know if the Energy Star cutoff 5 level ever changes or if it has always been 37 and 6 50? I know that it is 37 and 50 during the 8 Α 9 certification period for the washing machines at 10 issue here. Beyond that I don't have a memory of 11 whether those marks have changed. 12 If I represented to you that, in fact, 13 the Energy Star cutoff level has gradually increased over the years, that wouldn't surprise you? 14 15 Α I would take your word for it. 16 So a clothes washer that was tested 17 under the 2016 standard versus the 1997 standard --18 let me -- let me rephrase this, this question. 19 A clothes washer that would meet Energy 20 Star under 1997 regulations might not meet Energy 21 Star under 2016 regulations? 2.2 Α I don't have enough information in that question to be able to answer that. 23 If you wanted to determine if a clothes 24 Q washer met the Energy Star standard in 1997, you 25

Page 98 would need information about what the regulation and 1 2. test procedures were in 1997? You may or you may not need that 3 Α information. 4 Do you know if the average consumer 5 6 keeps up with Energy Star cutoff levels? 7 MR. DECKANT: Objection, lack of foundation. 8 9 THE WITNESS: That information is not relevant for the two types of damages that 10 I've calculated here today so I haven't made 11 12 an inquiry to make that discovery. 13 BY MR. LOGAN: Might an individual consumer's 14 0 15 understanding of Energy Star change over time? 16 MR. DECKANT: Objection. 17 THE WITNESS: Again, I've made no study of individual consumers in this case. 18 19 is no need to do so. The appropriate 20 understanding, at least for -- well, the 21 appropriate understanding of both types of 2.2 damage methodologies relates to a class-wide 23 analysis and vis-a-vis price premium. We need 24 to understand in market wide price premium and not what any one individual consumer thinks. 25

Every consumer is harmed by virtue of paying a marketplace price premium regardless of what they think about the Energy Star logo.

BY MR. LOGAN:

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Q Do you have any understanding of the requirement of an Energy Star logo to be displayed for qualified machines?

A I don't understand that question.

Q Once an -- once Energy Star approval is earned, is it mandatory for the Energy Star logo to be displayed?

A I don't believe that it's mandatory, but the information that I've seen would indicate that there is widespread understanding of the value of the Energy Star in terms of both retailers and wholesalers, and I've seen no evidence that those that earn the Energy Star aren't extremely eager to display it in customer-in store collateral websites, advertisements and the like.

Q When Energy Star standards change, and there are still in stock older Energy Star machines that do not meet the new standards, do you have any knowledge about what happens to those machines?

A Can I hear that question back, please?

(At which time the following question

Page 100 was read back by the reporter: 1 2. "Question: When Energy Star standards change, and there are still in stock older 3 Energy Star machines that do not meet the new 4 standards, do you have any knowledge about 5 6 what happens to those machines?") 7 MR. DECKANT: Objection. 8 THE WITNESS: Your question is a little 9 too vaque for me to answer. 10 BY MR. LOGAN: 11 Well, we already discussed how Energy 12 Star standards might change from time to time and 13 have gradually increased over the years. My question is, if you have a particular model of -- of 14 15 clothes washer that was Energy Star certified, under the standard then in existence and then the standard 16 17 changed, do you know what happens with these old 18 machines that are no longer -- meet the new standard? 19 20 А Right, and what I'm saying is that what 21 happens is such a broad term to me that I have no idea what you're trying to ask. 2.2 Are the -- can retailers still sell 2.3 0 24 them with the Energy Star label on them? 25 MR. DECKANT: Objection.

Page 101 THE WITNESS: Again, I would need to 1 2. refresh my recollection on that. As I sit here right now, I'm not sure. 3 BY MR. LOGAN: 4 Let's go back to the Energy Star test 5 procedures at the time that these clothes washers at 6 issue were certified. I believe that you set out the formula in -- in your report in paragraphs 9, 8 10, and 11. I'll give you a second to review that. 9 10 Is your recollection that as part of 11 the Energy Star tests that were conducted in this 12 case energy consumption of the clothes washer would 13 need to be measured? I'm sorry. I was reading the document 14 15 when you started that question, so if you would please ask it again, I would appreciate that. 16 17 Sure. I can -- as part of the Energy Q Star test, energy consumption needs to be measured; 18 is that correct? 19 20 That is part of the test. Α 21 Q And water consumption? 2.2 Α Correct. 23 And --0 Let me just back up. The way I use the 24 Α term "energy" relates to water consumption. 25

we could be on the same page of talking about either electricity, gas or water, because I view the term "energy" to relate to water consumption.

Q The Energy Star test for clothes washers has an MEF, a modified energy factor, and a WF, a water factor. You're -- you see that?

A I'm aware of both of those terms.

Q And the modified energy factor is focused on electricity and the water factor is focused on -- on water; is that your understanding?

A That's my understanding.

Q You also, in paragraph 10, refer to drying energy.

A Yes.

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Q What do you -- what is your understanding of how drying energy fits into the Energy Star calculation?

A I'll do the best to do this off the top of my head, although I would strongly advise you that if you have workpapers or the regulations that I might be able to give you better testimony with that. So subject to that caveat and the fact that I may need to revise this, my memory of the MEF is that you take -- MEF is equal to the capacity divided by the energy used by the washing machine --

sorry, the electricity used by the washing machine directly plus a drying use factor that is calculated for that washing machine, and that you need to isolate -- you can isolate out each of those subcomponent parts of the energy consumption.

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And in, you know, math going back and forth you can calculate the MEF by MEF divided by -- MEF is the -- yes, if you take the capacity and you know the drying use factor and the energy consumed you add the drying factor, plus the energy consumed and divide that into the capacity to get the MEF.

Q So I guess what I am trying to get at here -- and thank you for that. I -- I think all of that was -- was accurate. You -- you need to know capacity, energy and drying energy? Those are the -- the three big variables in the calculation of MEF?

A I think that's correct.

Q When you were doing your analysis for this case, and you looked at the DOE audit results, did you rely on what the DOE found to be the capacity energy consumption and drying energy for these clothes washers?

A For purposes of the DOE results, I've looked at the capacity used by the DOE. I looked at

Page 104 the electricity used as measured in the test. 1 2. without looking at my workpapers, I don't recall whether the test results included a drying use 3 factor or whether I recalculated that. But the 4 drying use factor I believe is a mathematical 5 constant that can be determined from the 6 regulations. The drying use factor is not something that is measured by the test. 8 (Off-record discussion.) 9 10 BY MR. LOGAN: 11 Clothes washers under the Energy Star 12 test are tested on the, quote/unquote, normal cycle; 13 is that your recollection? I don't have a particular recollection 14 15 as I sit here today. I would have to go back and look at the testing procedures. 16 17 I'll represent to you that they are tested on the normal cycle at various sizes. 18 19 clothes washers here had different settings such as 20 heavy duty and delicate. Do you know if those were 21 tested as well? Again, without looking back at the test 2.2 Α results, I don't have a specific recollection. 23 24 Though whether or not those settings were tested

does not change my opinions in this case.

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Q Well, if those settings were -- were not tested in this case and a consumer used those settings, then the consumer might not be getting the efficiencies implied by the Energy Star logo; isn't that true?

MR. DECKANT: Objection.

THE WITNESS: That's well beyond the scope of my assignment, which is to calculate class-wide damages in this case, and the DOE test rules and the Energy Star certification are designed to apply broadly over a large either class or population of individuals and over a fleet of appliances. So I don't think that the -- I don't think that any one individual's circumstances matter for purposes of calculation of class-wide damages in this case.

BY MR. LOGAN:

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Q Well, let me -- let me push back on that because if the Energy Star tests are only focused on the normal setting and not other settings and that a consumer takes the product and uses it in other settings that have not been tested, then the consumer need not necessarily expect that they would have received the efficiencies implied by the Energy

Star logo because those were not tested; isn't that right?

MR. DECKANT: Objection.

THE WITNESS: I, again, don't agree with your characterization and would state that on a class-wide basis the results of the DOE test which are intended to apply to all of the appliances in a particular either model or category and the information that is provided both to the EPA and to all of the consumers that that information is intended to apply across a broad population of -- of consumers.

Q But the DOE test procedures does not provide that every setting on a clothes washer is

tested; isn't that correct?

BY MR. LOGAN:

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A Again, I don't recollect the precision of the DOE testing. If you want to mark that document, we can talk about it. But my understanding of the DOE test results is that the test is designed to provide information that's useful to all consumers in the aggregate and to allow a determination to be made about all units of a particular appliance.

Q Is it your position that the DOE

looked -- well, strike that.

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Have you seen information in this case that the clothes washer at issue were disqualified from the Energy Star program by the EPA?

A I know that that is Plaintiffs' allegation in the case, but as I sit here today, I don't recall what documentary evidence, if any, I have seen that that is the case.

Q And as we previously discussed, you are assuming liability so you make no determination if the clothes washers at issue were disqualified by the EPA?

A I've made no independent verification of that detail because that is Plaintiffs' theory of liability and I have matched my damages theories to Plaintiffs' theory of liability and an assumption that that liability is ultimately established. And what we also talked about earlier today is that my methodologies do not change if some subset of the washing machines are found to have been certified that may change the result of the calculations, but if the Court says anything after 2010 is in the class and anything before is not, the methods that I provide are just as workable. We would just take the data for the prescribed class and obtain results

in that manner.

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According to the DOE audit tests that Q you reviewed in -- in this case, were the clothes washers more efficient than the minimum Federal efficiency standards mandated?

Again, if you want to put those in front of me, I can look at that, but I don't have a recollection one way or the other.

0 Do you recall how close these clothes washers were to meeting the Energy Star standard as tested by the DOE?

I'm sorry. I just don't have a recollection of what those documents showed, but those documents speak for themselves.

Well, why don't we look at the energy expense damages that you calculate here. Could you summarize what you were trying to accomplish with the calculation of energy expense damages?

Α At a broad level what I sought to do is measure the additional expense that consumers will bear as a result of operating these machines at the less efficient tested level rather than the minimum guaranteed level indicated by the Energy Star certification.

So if we look at Table 1 we see the --

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one column for the Energy Star standard and one column for the U.S. DOE result.

Do you see that?

A Yes.

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Q And your calculation of energy expense damages depends upon the annual difference between these two numbers, the Energy Star standard and the DOE result?

A I guess I would say that it depends on the difference between those measurements, but whether you express it on an annual basis or a monthly basis doesn't really matter. Or any other basis.

Q So a clothes washer could, for example, miss the Energy Star standard by a very small amount, say ten cents a year, or it could miss it by a mile, say \$100 per year. Does that -- does that make sense?

A Well, I would view it as it missed by X amount of energy or X amount of water rather than the dollars. Ultimately I guess you can translate that into dollars, but I believe the -- the testing results are based on electricity and water consumption rather than dollars.

Q So for the -- the energy expense

damages you don't just look at Energy Star versus non-Energy Star, you look at Energy Star versus the DOE result in terms of by how much the tested model missed the Energy Star standard?

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A That's correct. I'm not looking at, say, the Federal required standard versus the Energy Star logo. But again, the methodology that I provide here could be used with any two goal posts, the Energy Star minimum amount, the advertised amount to the extent that that is available, and the U.S. DOE test or some other factor as a -- as a comparison.

Q Okay. For the price premium model, it seems to me that the data that you are looking at is comparing Energy Star versus non-Energy Star.

You're not looking at questions of degree, like, for example, how close the non-Energy Star is to Energy Star. Is that fair?

A I don't know whether it's fair or not.

Q Well, in -- in the deposition we did a few years ago in the DeiRossi KitchenAid case, I recall you saying that Energy Star is binary, that it was either present or it is absent.

Does that -- do you recall that?

A I would agree with that, yes.

Q And so for the price premium model in this case you would say that the -- that Energy Star is binary; is that right?

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A Correct. So I would want the record to reflect that energy expense damages and price premium damages are, although related to the same conduct, very different in their nature and very different in the way that it's economically appropriate to calculate them. And I would agree that for purposes of price premium damages, the correct way to view the Energy Star logo or certification is with the binary perspective.

A product is either qualified or it is not. To the best of my recollection, at least during the time period at issue in this case, you couldn't have a product that was half Energy Star or ultra Energy Star. You either have the certification or you don't. And so the correct method for measuring damages would be how much did consumers pay as a direct result of the presence of the Energy Star certification.

Q I guess I'm confused. Why is it appropriate to evaluate questions of degrees in the energy expense damages and assume Energy Star is binary for price premium damages?

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A Because the impacts of the defendants' conduct are different under each style of damages. So when a consumer goes to a store and is going to buy one of these washing machines, it is either Energy Star compliant or not. And the market price for that washing machine is going to reflect the presence or absence of that label because it is a binary condition. Again, there are -- Energy Star, at least to the best of my understanding, is not measured in degrees.

When we look at energy expense damages we're not looking at the price that was paid simply because the logo was present or not present, we're looking at how much additional energy is the class going to expend on operating these washing machines as a result of the machines not being as efficient as indicated by the Energy Star certification.

Q So for your price premium model, since you are only looking at Energy Star versus non-Energy Star, the price premium calculation would be the same for a clothes washer that missed Energy Star by .1 percent or by 50 percent?

A I don't know that I've made that determination in this case. What I'm telling you is that the price premium for all of the Maytag

Centennial washing machines is as calculated by Whirlpool, Dr. Sukumar, or Dr. Dennis.

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Q In the price premium calculations in your report, there is no mention of how close these clothes washers were to Energy Star; isn't that right? So therefore, it's fair to say since the result of the DOE test doesn't matter, it doesn't matter if it's .1 percent off of Energy Star or 50 percent off of Energy Star?

A I'll need to hear the question read back, please.

Q Let me -- let me rephrase it.

The -- you -- you agree that the degree to which the clothes washers missed Energy Star, according to the DOE test, did not play into the calculation of price premium damages?

A I believe that's accurate.

Q Okay. All right. Why might someone want to buy an Energy Star clothes washer over a non-energy Star clothes washer?

A That's not really part of the scope of my assignment here and I haven't conducted a detailed study of -- of that particular issue.

Again, due to the binary nature of the Energy Star certification, again, individual reasons for

purchase have no impact on the measurement of price premium damages in a case like this.

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Q A person might buy an Energy Star clothes washer in order to save money on utility bills?

A Again, I haven't made a particular study, so I'm not going to be able to testify about individual reasons except to say that I've given some consideration about whether individual reasons should matter and they do not matter in this case. And there's no impact on the calculation of price premium damages regardless of what consumers think individually about the Energy Star.

Q When you -- let me take a step back.

You're aware of programs that provide
tax benefits or rebates related to the purchase of
an Energy Star appliance; is that right?

A I would say I'm at a very high level aware of tax rebates, credits or however you've described it as being aware for energy efficient items, but I don't know whether the Energy Star itself or the Energy Star certification plays into any of those rebates.

Q Did you evaluate whether or not the availability of rebates impacts the analysis in your

Page 115 1 report? 2. Α Can I hear that back, please? 3 That was an extraordinarily poorly Q phrased question. 4 THE REPORTER: Do you want it read 5 back? 6 7 MR. LOGAN: No, never read that back. BY MR. LOGAN: 8 9 0 The availability of rebates does not -is not mentioned in your report; is that correct? 10 11 I think the document speaks for itself. Α 12 Is there a reason that you chose not to 13 include an analysis of rebates? Α Yes. 14 15 0 What is that reason? 16 It would be inappropriate to include an 17 analysis of rebates or other such, however you've 18 described them, because again of the binary nature of the Energy Star, it's either present or not 19 20 present, and the value in the marketplace is going 21 to be determined based upon its presence or absence. 2.2 Sorry. Let me just -- let me add to 23 that, which is that the harm and damage caused by Whirlpool as a result of selling machines that are 24 labeled as being Energy Star certified and allegedly 25

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not certified doesn't change whether or not any one individual or group of individuals receives any kind of rebate. And so when we're measuring class-wide damages as a result of a defendant's conduct, it would be inappropriate to consider those -- those particular issues. There's no need to consider them.

Q See, I don't know if that's right because where we talked about, in terms of calculating damages, it was between what was promised and what was delivered. And if what was promised included the availability of a rebate, would you not need to consider whether or not the consumer actually received that rebate?

characterization of our prior conversations. What I would say is the appropriate measure of damage in this case, as it relates to price premium damage, is the amount of price premium, the class members in the aggregate, the class has paid as a direct result of defendants' conduct of labeling these washing machines as Energy Star certified when, in fact, they were not.

And the presence or absence of rebates does not impact that measurement of the marketplace

price premium extant for the Energy Star. Let me -- I think I misstated that.

The receipt of any such rebates by any one individual does not impact the marketplace price premium attributable to the Energy Star in this case.

Q Isn't it the case that consumers might be willing to pay a price premium for an Energy Star product if they knew that there was a cash rebate that they would receive for doing so?

MR. DECKANT: Objection.

one way or the other. I've seen no such evidence in this case that that is -- that that is actually true, and it has no bearing on the calculation of the market place price premium that consumers actually paid as a direct result of defendants' conduct.

BY MR. LOGAN:

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Q I want to talk briefly -- we covered a little bit of this before, but I want to talk briefly about your relationship with Drs. Sukumar and Dennis.

You said you had worked with them previously on cases; is that true?

A Yes.

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Q Do you recall about how many times you have done so for each?

A I've worked with Dr. Sukumar on one other occasion. I've worked with Dr. Dennis on many occasions. I would have to do a tabulation to give you an accurate count of that. But more than once or twice.

Q Did you supervise their work in this case?

A I would not describe my role in this case as having been supervisory as to Dr. Sukumar and Dr. Dennis. I did have conversations with them about their work product and I had conversations with them about how I intended to use their work product that I understand led to the development of their surveys and the results therefrom.

Q Did you call for a contingent and conjoint survey in this case in order to help assist you in -- in what you were doing?

A I don't think I was the only person that said let's do contingent valuation and/or conjoint. Those are methods that I commonly suggest in terms of methods by which a price premium may be -- may be calculated. But again, I don't recall

being the one who said let's use these methodologies. I think that was probably a joint decision amongst all of the professionals working together and it seemed like a reasonable judgment to me.

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Q So regardless of its origins, you agree that contingent valuation and conjoint analysis are appropriate for this case and you're relying on the work of Drs. Dennis and Sukumar in order to calculate the price premium?

A Again, if you can break your questions into single questions, I would appreciate that.

Q You agreed that contingent and conjoint analyses were appropriate in this case?

A Yes, I believe those are two appropriate methods that may be used to determine a price premium in this case.

Q Okay. In previous cases where you and I have been involved, you've recommended hedonic regression in order to isolate a price premium, and yet you -- your report in this case does not make that recommendation. Is that accurate?

A I think it is literally true that in another case that I've worked on that you've been involved with I suggested the technique of hedonic

regression, and that in this case I have not overtly made that recommendation.

Q Did you determine that hedonic regression would not be appropriate in this case?

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A To the best of my recollection I did not make a determination one way or the other about the usability of hedonic regression in this case.

Q Why did you not use hedonic regression in this case?

A What I would say is that in many cases, other than this particular one, I often advocate hedonic regression, conjoint evaluation and contingent valuation methodology as being perfectly equivalent substances. I'm happy with any of them, at least under certain circumstances.

And so I don't know that I have a particular reason why hedonic regression was not part of my analysis in this case. Again, I don't have a particular memory one way or the other of it coming up at all, and I don't, at least without doing some additional work, have an opinion that it is or is not suitable here. It's just that I've relied upon two other methods that I regularly testify about as alternates for ways to calculate the price premium in this litigation.

Q Well, in the -- in the KitchenAid case you said in your report that the use of hedonic regression was the ideal way of calculating the price premium attributed to Energy Star.

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So my question is, what changed? Why is it that it was ideal in that case and you don't even mention it here?

A Do you have a copy of that report? I would love to see the exact words that I used.

Q I could probably pull it up on my computer, but I'll represent to you it was the word "ideal."

A Well, I suspect that the word "ideal" may have been used, but it's the context of the surrounding words that I'd like to understand before I answer that question.

Q Well, based on your memory, why was hedonic regression suggested in the DeiRossi case and not here?

A Well, again, my memory of what I said in the DeiRossi case would be that hedonic regression is an ideal method. And as I've testified now in numerous litigations, I have testified that hedonic regression, conjoint and contingent valuation methods are substitutable

methods of reaching the same evaluation.

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And I don't have a memory one way or another of a specific determination as to hedonic regression in this specific case other than that I don't find -- I'm not choosing contingent valuation and/or contingent valuation joint analysis as being second best to hedonic regression. I believe they're substitutable techniques when all three techniques can be performed.

Q So you have not -- sorry. One second.

MR. DECKANT: I just want to ensure here while we're taking a momentary break. You've been talking about some testimony you gave in the DeiRossi matter, I believe. Are you subject to a non-disclosure agreement or a confidentiality undertaking in that matter? I just don't know off the top of my head.

THE WITNESS: I probably am.

MR. LOGAN: My memory is that the report in DeiRossi was -- was filed under seal. So we will keep that in mind when we're reviewing the transcript in this case. But, I mean, everyone here has read it, obviously, so I'm not too concerned about anyone's ears catching fire in this ear.

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MR. DECKANT: Well, there is a little bit of an intricacy in that Bursor and Fisher and Faruqi & Faruqi were appointed co-counsel, I believe, in the DeiRossi matter and Anthony Vozzolo is currently with Vozzolo LLC instead of Faruqi & Faruqi.

MR. LOGAN: I will happily waive any sort of confidentiality as to Mr. Vozzolo. I don't view it as terribly significant that he changed firms for the purposes of looking at the -- Mr. Weir's report in the DeiRossi case. Although I'm sure it's significant for many other reasons.

BY MR. LOGAN:

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Q I'll -- I'll move on from -- from the DeiRossi case.

I want to just clarify your testimony as to why hedonic regression was not recommended in this case, and I believe your testimony is you don't remember. Is that fair?

A What you've -- that's a little bit of a mischaracterization because it's not that I made a recommendation against hedonic regression and don't remember it. What I've said is I don't remember making an evaluation about hedonic regression one

Page 124 way or the other in this case. 1 You do not recall recommending hedonic 2. 3 regression in this case? I don't have a recollection one way or 4 Α the other. 5 And you do not recall not making a 6 7 recommendation of hedonic regression in this case? That's correct, I have no memory of 8 Α 9 that one way or the other. 10 Do you recall an earlier draft version 11 of the report where you did recommend hedonic 12 regression? 13 MR. DECKANT: Draft versions of the 14 report are protected for disclosure under 15 Rule 26. 16 MR. LOGAN: I am not asking for 17 disclosure of the draft report. 18 BY MR. LOGAN: I -- I want to know if you checked your 19 20 records, would you be able to determine if you recommended hedonic regression in this case? 21 2.2 MR. DECKANT: Wouldn't that also be 23 asking about work product? BY MR. LOGAN: 24 I'm asking about your memory. Do you 25 Q

remember a determination about hedonic regression in this case?

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A I've told you that I don't remember a determination about hedonic regression in this case. That's precisely what I've said four times now.

Q Well, now that -- now that we have brought it up, do you think hedonic regression would be a good method to calculate price premium in this case?

A I would need to give some additional consideration to that. What I said already today and would be happy to say is that when the circumstances are right and the requisite information is available, I view hedonic regression, conjoint analysis and contingent valuation to be economically and statistically valid and equivalent ways to develop a price premium methodology, and I don't per se have a preference for one or the other or believe that one or the other will provide a more accurate result.

Q I believe we've been talking about a determination about hedonic regression in this case. Let me rephrase it.

Did you consider using hedonic regression in this case?

A I don't have a memory one way or the other.

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Q Okay. You calculate two different types of damages in this case which you've labeled as energy expense damages, which I recall you saying that includes water, as well as price premium damages; is that fair?

A Those are the two high level categories of damages that I set forth in my Declaration.

Q Why did you set forth two high level categories of damages instead of one?

theories of liability in this case where either one of these, or perhaps both, would be called for as measures of damage. Specifically I believe that Plaintiffs allege that the class has paid too much for the products as a result of the improper labeling of the Energy Star logo on these washing machines. So my understanding would be that generates a need for price premium damages if liability is established.

And I believe Plaintiffs also assert that on an ongoing basis the class pays additional amounts for energy as a result of the lowered efficiency of these washing machines, and as a

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result of those particular claims, the measurement of the energy expense damages would be appropriate. But, again, we're wavering into what I understand to be a legal determination of which theories of liability are allowed or approved vis-a-vis the causes for action which are, you know, beyond my pay grade as an economist. But, again, I tried to set forth damage calculations. I believe I succeeded in setting forth damage calculations that comport with my understanding of multiple theories of liability set forth by the Plaintiffs. Is it your opinion that the class would be entitled to both types of damages in this case? Α Can you tell me what you mean by "entitled"? If let's say there is a hearing class certification and the judge asks you should the class receive both energy expense damages and price premium damages, is that your testimony? And there's no consideration of what the law may allow for or anything like that, we're just talking about as an economic basis? What -- I'm asking what your opinion Q

is, regardless of what the law says.

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A Okay. It's my opinion that the class should at least be eligible to receive both types of damages because first when the Plaintiffs went into a store and bought these washing machines, they opened their wallets and paid a price premium as a result of their buying a product that was inappropriately labeled as Energy Star certified and continued to open their wallets on a monthly basis to pay higher water bills and electricity bills and perhaps other energy bills to continue to operate those machines.

Q If -- if a class member is compensated for the price premium, that would put that class member in a economic position such that they did not buy an Energy Star clothes washer, but instead bought a conventional one; isn't that fair?

A I don't know whether that's fair or not.

Q If -- the price premium damages are designed to compensate putative class members for initial overpayment. That's -- that's fair?

A I don't know whether it's fair or not.

Q Is that your opinion?

A My opinion is that price premium damages are intended to compensate consumers for the

price premium that they paid as a result of the products being labeled as Energy Star certified when they were not.

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Q Had the product not been labeled as

Energy Star, it's your opinion that the putative

class members would have paid less for the products?

A My opinion is simply that they paid a price premium that existed in the marketplace as a result of the Energy Star certification being made when it should not have been made.

Q Had the Energy Star logo not been there, they might have paid the same amount?

A I haven't made an evaluation of what might have happened. If we went back in time and we did something else, the calculations that I've made are to understand the price premiums that consumers actually paid as a result of defendants' conduct of labeling these consumers with the Energy Star certification when, in fact, they were non-Energy Star certified.

Q So it's your opinion that the market charged a premium for this clothes washer because it contained the Energy Star logo?

A The market charged and consumers paid a price premium because this was labeled as an Energy

Page 130 Star certified washing machine when, in fact, it was 1 2. not. 3 And when we talk about that premium, is 0 that a premium in comparison to a clothes washer 4 that does not have the Energy Star logo? 5 It is a premium that's calculated based 6 7 upon the actual sales transaction that took place. It's the price premium that consumers actually paid 8 9 in the marketplace when they went to the store and 10 bought these washing machines. 11 You've asked me to notify if I'd like 12 to take a break in a few minutes, and I certainly 13 don't mind answering a few more questions, but I'm getting near wanting to take a five-minute break. 14 15 MR. LOGAN: Well, it's 12:30. Should 16 we do a short lunch here? 17 MR. DECKANT: Sure. Yeah. MR. LOGAN: I'm fine with that. 18 19 MR. DECKANT: Okay. 20 MR. LOGAN: All right. Let's go off 21 the record. 2.2 VIDEO OPERATOR: The time is 23 approximately 12:32. We're going off the 24 record. (Brief recess.) 25

Page 131 VIDEO OPERATOR: Okay. The time is 1 2. approximately 1:26. We are back on the record. 3 (Document WDZ0009099 to WDZ0009100 was 4 marked Weir-4 for identification.) 5 BY MR. LOGAN: 6 7 The court reporter has marked for you 0 Exhibit 4, which is a document Bates-labeled 8 WDZ0009099 to - 9100. It's cited in Footnote 8 of 9 10 your report. You can put it aside for now. I'll 11 come back to it in a few minutes. I just wanted to 12 get that on the record. 13 Α Okay. Before we broke for lunch we were 14 15 starting to have a discussion about the -- how the two methodologies --16 17 MR. LOGAN: Can we go off record for 18 one second? 19 MR. DECKANT: Sure. 20 VIDEO OPERATOR: It's approximately 21 1:27. 2.2 We're off the record. (Brief recess.) 23 24 VIDEO OPERATOR: Okay. It's approximately 1:40. 25

We're back on the record.

BY MR. LOGAN:

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Q Mr. Weir, before lunch we were discussing energy expense damages versus price premium damages, and I was trying to elicit your opinion on whether your proposal is that both of these types of damages should be used together.

Is that your recommendation or are you saying it should be one or the other? Could you -- just so we have a clean record here, could you clarify your opinion on -- on this matter?

A Sure. I think the conversation that we had before was whether or not it could be appropriate to use both of these methods. And my answer at the high level is yes, I believe it is economically appropriate should all of the other necessary factors of the case play out to grant consumers both of these methods of damages.

And I think you posed a hypothetical, if the judge said to you what would your recommendation be, I would have no problem recommending that, again, all else equal, both of these methods could be used. But I would also testify that if, for whatever reason, as to the law or only one claim gets made, both of these are

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stand-alone measures and they're calculated separately and independently of one another. So if Plaintiffs prevail on only one of their theories of liability, these two damages aren't necessarily intrinsically tied together. I would feel comfortable saying that you could award just the one, if that's how the law dictates would be most appropriate.

Q Now, in your answer you talked about different theories of liability. Are -- are you referring to the legal claims and the causes of action in the Complaint?

A As I understand them as a non-lawyer, yes. And I think I've summarized them earlier today, but I'll do another go-round on that. I believe one theory of liability is that Plaintiffs allege that the class members have paid too much for these washing machines because -- or they paid a price premium for the machines because Defendants labeled these washing machines as Energy Star certified when, in fact, they were not.

And a second theory of liability is that consumers are paying additional amounts for energy above and beyond what they should have because the washing machines are not as energy

efficient. And, again, I use "energy" to refer both to electricity and water and other types of energy. They're not as energy efficient as they should have been had they been appropriately Energy Star certified.

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Q And so your opinion is that if
Plaintiffs prove both of their theories of
liability, then your recommendation to the Court
would be that the class is entitled to both types of
damages?

A I think the way that you've used the word "entitled," I would say yes. I would tell the judge and the jury that the Plaintiffs are entitled to both. How the judge and/or jury then makes that decision, I'm not going to advise them one way or the other, but I would say if they chose to only apply one, again because of the circumstances of the law or the jury instructions or -- or whatnot, that that would -- that would certainly not be inappropriate to award just one. But that Plaintiffs are entitled to both.

Q Is there an economically principled reason to prefer one or the other damages types?

A No, which is why I would say they're entitled to both.

Q Before we -- we broke, the court reporter marked Exhibit 4. I believe I read the Bates label of that. I also want you to get out Exhibit 1 and turn to the energy expense damages section. I'd like to run through the assumptions that you made here and the calculations and the source data for these calculations.

You see that you cite Exhibit 4 in Footnote 8. Do you see that?

A Just so that the record is completely clear, I cite three documents in Footnote 8, and Exhibit 4 is only one of them.

Q Is one. Okay.

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And so the numbers that you have used in order to populate the -- the equation for -- for Energy Star, those came from these exhibits that are cited in Footnote 8?

A What I would tell you is that the numbers in Table 1, for example, are best said to can derived from a worksheet which is Exhibit 3 to my Declaration. Some of the information in Exhibit 3 comes in part from Deposition Exhibit 4.

Q Okay. And I believe that your -- your previous testimony was that you relied on the DOE audit data, which is in part here Exhibit 4 to the

deposition, in order to get the numbers for capacity and energy consumption, but not the number for drying energy; is that correct?

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A My testimony earlier today was that I definitely used the Department of Energy to determine the capacity and the tested result, but that I could not recollect without looking back through my workpapers and all of the documents whether the drying factor was something that I pulled from the test or was able to calculate. I know that the drying factor is the product of a number of pieces of information that come from the regulations that we've talked about at length today and that's something that should be able to be independently calculated.

Q Does Exhibit 3 to your report refresh your recollection about the number that you used for the drying factor?

A It refreshes my recollection about what number I used, but not the source data of that information.

Q And you would agree that this report does not itself identify the source of the number you used for the drying energy?

A Again, I would need to go back and

Page 137 review my workpapers to make sure that this -- I'm 1 2. virtually certain that the source of this number is, in fact, cited at least in Exhibit 2 to my 3 Declaration. 4 Did the DOE audit calculate the drying 5 factor for the clothes washers at issue in this 6 case? Well, again, you've only provided me 8 Α 9 with one of the three worksheets from the DOE, so in 10 order to refresh my recollection I need to see all 11 three. 12 Sitting here you're not sure if the DOE 13 performed those tests? Which -- I'm sorry. What tests now? 14 Α 15 0 To determine the drying factor for the clothes washers at issue in this case? 16 17 There is not a test to determine the drying factor. That's -- again, it's a calculation 18 19 that is prescribed by the regulations. 20 Let's turn to Table 1. Can you walk me through step by step how you arrived at the number 21 2.2 of 243 kilowatt hours per year? Sure. So unfortunately, I'm going to 23 Α have to refer us straight back to that Exhibit 3 to 24

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my report because that's where that determination is

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made.

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Q That's fine.

A So -- boy, this printing seems to have cut some stuff off here on this copy that I have.

And also in my file this document is an electronic sheet and not the paper copy here, but let me just try and visually describe it. At the top it says calculation of future energy expense, and there's a box that has inputs that can be adjusted or changed.

Below that is a box that has some independent test result information for electricity only. Then there is a box that has independent test results for electricity and gas. And then below that is a box that has the determination of the Energy Star minimum, MEF calculated at 212 at the bottom, and above that is the tested MEF, which takes the tested MEF of 1.72, the tested capacity, and what happens in the next cell where it says KWH, or kilowatt hour per cycle, if my memory is correct, the formula would be -- I think it's the capacity divided by -- the MEF would be the total energy used. Is that right?

I can't remember off the top of my head whether it's capacity divided by MEF or vice versa.

But the division of those two things leaves you with

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the total energy used by the washing machine, and you subtract from that result the drying use factor, which is shown up in the top box with the inputs.

And that leaves you with a net of .62 KWH per cycle as being the electrical cost of running the machine if you are running the machine with both electrically powered spin cycle and electrically powered hot water.

If you multiply .62 times the prescribed 392 cycles per year, you get -- this number may be rounded here, but 243, which is the number of kilowatt hours of usage per year based upon the DOE tests.

Q This methodology that you have just described in your previous answer, is that the same methodology that the DOE uses in order to determine its estimated annual energy use for the energy guide label?

Mhat I have just told you includes a mathematical relationship where the MEF, the capacity, the drying use factor and the energy used expressly by the washing machine are all interrelated, and so I have used that same mathematical identity that I believe DOE uses to calculate an MEF, but, for example, the DOE is

determining that energy use factor in isolation by measuring the amount of hot water and the amount of electricity going to the machine. I am basically calculating that number back out using the mathematical identity from the MEF.

So, again, I would say they're related and we're using the same mathematical identity, but the DOE is actually conducting the energy test, and I'm simply using math to figure out the results of the DOE's energy test based upon the MEF.

Q So this .62 kilowatt hours per cycle, did -- is that a number that was determined by the DOE for these clothes washers in their -- in their audit tests?

A Yes.

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Q If the DOE, in fact, did not determine that the kilowatt hours per cycle was .62, as you said, we would need to adjust these numbers?

A I haven't seen any evidence that that's the case, but again, as I've said numerous times today, my methodology is quite flexible. All of these numbers are mathematical identities and formulaic so it would be quite simple to, for example, put in results of a different test and obtain -- obtain an output.

Page 141 And the point -- I think we already 1 2 went over this, the tested capacity -- yeah, never 3 mind. 4 Electric rates vary across states, correct? 5 6 Α They do, yes. 0 And they vary within states? Not when you're doing an aggregate 8 Α 9 analysis across the state. 10 Are you aware that some governments 11 offer discounts or rebates for energy costs for low 12 income households? 13 Α Define what you mean by "government." State governments. 14 0 15 Α I don't have -- I don't know one way or the other. 16 Safe to say you don't take any such 17 programs into account in your projection of electric 18 rates? 19 20 Incorrect. Α 21 0 Why is that incorrect? 2.2 Α Because I have blended average prices per kilowatt hour across the state that's going to 23 24 encompass the rates that all people pay for electricity within the state. 25

Page 142 And what's the source for that 1 0 information? 2. 3 Α The U.S. Energy Information Administration. 4 And does the U.S. EIA take into account 5 6 State Government programs to assist people with energy costs? I believe they take into account the 8 Α rates that people are actually paying regardless of 9 10 what program they're using when they determine their 11 statewide average. 12 Now, you project energy costs into the 13 future in this report; is that correct? Α Correct. 14 15 0 And what was your methodology for doing so? 16 17 I calculated a compound annual growth rate over 11 years of historical electricity prices, 18 and then for the remaining years in the analysis I 19 20 used the actual data points where there's an actual available and the estimate when there is not. 21 2.2 Does the U.S. EIA project electric rates into the future? 23 I recollect us having a conversation 24 Α about this two years ago, and I have not revisited 25

the issue since then, but what I remember saying at the time is that I am aware that they do conduct forecasts of electricity rates, but when I researched whether or not I felt that their rates were reasonable for use in this purpose, I made a determination that they were not. And so I have relied on my forecast of the rates here.

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However, I would say that as with most of the components of this methodology that I have set forth, that any measure of electrical rates -- past, present or future -- may be used in the analysis and the methodology will produce a result.

Q But as you sit here today, you standby the methodology used in Exhibit 3 to your report?

A Yes, I believe this is one reasonable way to estimate the damages.

Q Is it generally considered -- well, let me take a step back.

If we had to sum up your projection for electric rates into the future, you see a growth rate here in -- in the columns in the top right of Exhibit 3 in your report of 3.54 percent and 4.517 percent.

Do you see that?

A I'm sorry. Would you read the question

Page 144 back, please? 1 2. Q Sure. Look at the top row of the 3 electric projections on Exhibit 3 of your report and you will see one number. It says growth rate 4 3.54 percent. 5 Do you see that? 6 7 The problem I'm having is with your Α characterization of all of those numbers there at 8 the top. 9 10 You see the number 3.540 percent? Q 11 T do. Α 12 What does that percentage refer to? Q 13 Α That refers to the 11-year compound annual growth rate of electricity prices on a 14 nation-wide basis. 15 And in the column next to that number, 16 17 you see 4.517 percent growth rate? 18 Α Yes. What does that number refer to? 19 Q 20 Α That represents the compound annual 21 growth rate of water prices across the total U.S. Is it fair to say that you have assumed 2.2 Q that past growth rates in the price for electricity 23 will continue on into the future? 24 I don't know if I would describe it as 25 Α

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an assumption. That is the method that I have used
to forecast the rates based upon my experience,
based upon my review of the data, based upon a
number of factors. I believe that is one
statistically reasonable technique to make that
forecast.

Q Is it generally accepted in economics that past price increases will predict future price increases?

A It depends on what you're talking about.

Q How about electricity prices?

A That seems very reasonable to me.

Q Have you seen any evidence indicating that that is, in fact, the case, that past electric price growth will predict future electric price growth?

A I've studied this issue on a number of occasion and find that electric prices, which are a regulated utility, tend to increase -- it's not -- every year is not always linear, but on average in the aggregate tend to have very reasonable, consistent growth rates.

Q Did you examine the energy futures market in order to determine if your method was

correct here?

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A I don't believe you can make a determination on the energy futures market as to whether this methodology is correct, so I did not do so.

Q Did you consult with any treatises, books, articles or other experts in order to determine if this method of projecting electric growth rates in the future was appropriate?

A I would say yes, at least referentially in this case. This is not the first time that I've used this technique so I'm relying in part on my expertise and professional background, which has included numerous studies of this particular issue, including looking at treatises, various data sources and a number of other factors in determining that this is one reasonable technique to forecast electricity price.

Q Can you recall any of those sources at this time?

A That work would have been done five to ten years ago, so I apologize, but I don't have a recollection one way or another right now.

Q Have you read any articles on the projection of electric rates in the past three years

Page 147 that you recall sitting here today? 1 2. I don't have a recollection one way or 3 the other. And as -- as we discussed there is --0 4 and essentially the same methodology, but with a 5 6 different data set for the water rates where you are relying on past rate increases and predicting future rate increases; is that fair? 8 9 Α I don't know whether it's fair or not. 10 Is that what you did? 0 11 Α Yes. 12 Okay. In looking at Table 1, we see 13 the mathematical method I believe known as subtraction; is that -- is that true? 14 15 Yes, there's subtraction -- some subtraction in operation here. 243 minus 212 KWH 16 17 gets you a delta of 31 KWH. 18 On the -- on the water row, how did you 19 arrive at the figure of 9,748 gallons? 20 Let's turn right back to Exhibit 3 that 21 we've been talking about here for a moment. So 2.2 let's pick up where we left off in the middle of the sheet where we have the 243 and the 212 KWH numbers. 23 24 If we go down there, we have average gallon of water per -- well, I can't remember if that's hectoliters 25

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or what that unit is, but we had some input tables there and then we get down to independent test results, and then below that we have tested water factor and E-STAR max water factor. And in the tested water factor, I take the 8.1 water factor from the Department of Energy tests and the tested capacity and the formula, for the number of gallons is water factor times capacity equals gallons per cycle.

So 8.1 times 3.07 gets you roughly 24.87 gallons per cycle shown in the table. And then 24.87 times 392 cycles gets you 9,748 gallons, plus or minus. Again, these numbers may be rounded in the workbook.

Q Okay. All right. Let's turn to Table 2. And I believe in this table we have the mathematical tool of multiplication. Is that correct?

A Well, again, we have some numbers that are derived in different ways, but this table does show the math of multiplying number of units times the delta in energy difference times what I've described as cumulative energy expense damage over the lifespan of the product to arrive at the total energy expense damages.

So if I multiply 430,108 times \$42.30 1 2. I'll arrive at a little over 18 million? 3 I don't remember if you also need to Α multiply -- let me -- let me see if I can look at 4 the table here to let you know about that. 5 Yes, I think the 42.30 is the result of 6 7 31 KWH per year times the average price of KWH electricity times 11 years, which is done in the 8 9 workbook shown as Exhibit 3. And so 430,000 roughly 10 times 42.30 should get you to the \$18 million 11 number. 12 Okay. I pulled up a calculator here on 13 my computer. I have verified that this is the case. 14 Moving down to the water calculation, 15 is it your testimony that approximately 430,000 16 times \$12.70 would equal \$19 million? 17 I think here you would also need No. to multiply by the -- the gallon information. 18 Either that or the 12.70 is a typo in the -- in the 19 20 table. Again, I would refer you to the workpaper in 21 Exhibit 3 to get the calculation precisely. 2.2 What I'm trying to determine if the calculations in Table 2 are accurate or not. And it 23

A I would want to double-check my work to

sounds like you are -- you have some hesitancy here.

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be certain, but I believe the \$19.6 million number is the correct number.

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- Q When I multiply 430,108 times \$12.70, I get about five and a half million dollars.
- A Right. And I'm telling you that either the 12.70 is a typo in this table or an additional step needs to be taken to arrive at the \$19 million for the water, but I would refer you to the workpapers which show the demonstration of the \$19.6 million calculation, which is why I have relative comfort in that number.
- Q Well, we have about a \$14 million difference here. So I need to know your opinion. Are you standing by the 19 million or should we adjust that to about five and a half million?

And please take all the time you need and refer to your workbook in order to determine what is wrong with this table.

- A Without my electronic copy so that I can look at this, I'm not sure that I can tell you.
- Q You would at least concede that 430,000 times \$12 is not 19 million?
- A I'm not saying anything about the damages in this case, but I think I would agree with you on -- on that one.

Q So in order -- you concede there's something wrong with this table? Can we agree on that?

A Right. I suspect that there's a typographical error in the table.

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Q Okay. Let's turn to Table 3 and tell me what are the calculations that you performed in order to arrive at the total energy expense damages in the right-hand column of Table 3?

A Again, I would refer you to Exhibit 3 where these calculations are made. In this case I have subdivided the electricity, or the non-water energy component of operating the washing machines into electricity used to -- to run the spin cycle of the washing machine and perform other functions, and therms of natural gas used to power -- therm,

T-H-E-R-M -- the therms of natural gas necessary to operate a hot water heater to generate hot water for the washing machine.

And, again, I would point you in Exhibit 3. If we start at the top, again we have the inputs, and then independent of an independent test with history, and then independent test results of electricity and gas, which, again, are shown here in that section in order to --

Page 152 Now, you are looking at Table 4, it 1 0 I want to talk about at Table 3. 2. looks like. 3 Yeah, I had just flipped back to Α Table 4 accidentally, but Table 3 is what I am 4 talking about. 5 6 0 Okav. 7 And what I've given you in Exhibit 3 is the reference to where that calculation is made. 8 9 0 When I look at Table 3, at the row for electricity, which us the first row here, when I 10 multiply the 430,108 times 22.09, I arrived at 11 12 approximately \$9.5 million. 13 Α Okay. When I go to the next row for therms 14 15 and I multiply 430,180 times \$5.96, I arrive at approximately \$2.5 million. Does that sound right? 16 17 Α I'll take your word for it. 18 And when I multiply 430,108 times, in 0 19 the water row, \$12.70, I get approximately five and 20 a half million dollars? Well, that line in the table is the 21 2.2 same as in Table 2. So the discussion I've had there is going to be equally applicable here to 23 Table 3. 24 25 Q So you believe that the water row in

Table 3 is -- is not an accurate representation of your calculations?

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A I think it contains a typographical error. I would, again, instruct the reader of the transcript to look at Exhibit 3 to my Declaration where I set forth the calculations in -- in detail.

Q And to know that the true number for the water line here, you would need to refer to your electronic workbook back at your office?

A That would be the best way for me to give you the most accurate testimony.

Q Let's turn to Table 4. And take me through your calculations in Table 4.

A This should be very similar to Table 3 and Table 2. In fact, it's a blend of Table 3 and Table 2 where I calculate blended energy expense damages for the washing machines by disaggregating a percentage of the units to running on electricity only, and then a percentage of the units as running on a blend of electricity and natural gas to conform to the actual energy consumption for hot water heaters data that I have for the United States. And which is also representative of the named Plaintiffs in the class.

Q And in this water row, we see the same

Page 154 calculation as in Tables 2 and 3, which we -- I 1 2. think we have now concluded is a typographical 3 error? Yes. Α 4 Are there -- are you aware of any other 5 errors in Table 4? 6 7 Α Not as I sit here today. Why don't we run through the 8 Q 9 calculation on the first row. Am I to understand 10 that 41.3 percent of 430,108 is 177,819? 11 That's correct. Α 12 And if I multiply 177,819 times \$22.09, 13 I would get approximately seven and a half million dollars? 14 15 Α I -- I believe that's correct. But you 16 have the calculator, so you can double-check from 17 that. 18 All right. Well, why don't I calculate Q 177,819 times \$22.09, and the answer is 19 20 \$3,928,021.71, which you would probably agree is different than \$7,522,445. 21 2.2 Α I agree those numbers are different, 23 yes. 24 O Do you have an explanation as to why I've seen this number, seven and a half million 25

dollars, in the first row? If you need a calculator, I can lend you my phone. I don't know.

A I'm just trying to remember.

Again, I think I have a typographical error where on this first row, the 22.09 should be what it is in the first row of Table 2. So if you wanted to do 177,819 times 42.30, I believe that would be the correct calculation for that row.

Q In the process of reviewing your report today, have you identified any additional errors?

A Nothing other than what I would describe as these typographical errors in the third column that we've talked about today.

(Off-record discussion.)

BY MR. LOGAN:

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Q I want to go back to the water rates just for a minute.

Could you look at paragraph 17 of your report. And -- and based on paragraph 17, I'd like you to tell me what data you are using to determine the price of water and what years you looked at in order to make your determination.

A I would refer you to Exhibit 2 of my Declaration where I say the American Water Works Association water rates surveys from 2008, 2010,

2013 and 2014, which serve as the basis for actual numbers where -- where we have them and forecasted numbers where we don't.

Q On page 2 of Exhibit 3 to your report, why don't you flip there. I -- I'd like to draw your attention to what appears to be the price of water by region from 2003 onward.

Do you see that?

A Yes, I do see that.

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Q And yet taking paragraph 17 and Exhibit 2 into consideration, I'm seeing water rate surveys for four years -- 2008, '10, '13 and '14 -- and yet this chart has data going back to 2003. So my question is, where did this data going back to 2003 come from?

A All of the data that we have on the water pricing, at least to date, comes from the four water surveys that we've already discussed. What I don't recollect as I sit here right now because it's been quite some time since I've looked at -- through those voluminous surveys is whether or not each of those surveys provides additional data from historical time periods that would allow us to have that data, or whether we used the forecasting technique to fill in the blanks. But I would tell

Page 157 you that we're not using data from 2003 expressly as 1 2. part of the damages model. We're only looking at 3 the price points from 2009 and onward for purposes of determining energy expense damage in this case to 4 conform with the proposed class period. 6 The growth rate of 4.52 percent is 7 present here on page 2 of Exhibit 3. 8 Do you see that? 9 Α Yes. 10 And -- and my question is, the data 11 going back to 2003, is that an assumption or a 12 projection or is that real data from the American 13 Water Works Association? And as I sit here right now I just 14 15 don't recall one way or the other. It is either directly from the American Water Works Association 16 17 or derived therefrom. It is not from an additional 18 source or a guess. 19 Let's turn back to page 1 of Exhibit 3. Q 20 Α Okay. 21 And I want you to look at the left-hand 2.2 side of the page. There is a box. In the top left side of that box it says "average gallons of water 23 24 per HH," which I assume is household per year.

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Do you see that?

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Page 158 1 Α Yes. 2. Q And I see a figure of \$96,000? 3 Α Yes. Where did that number come from? 0 4 Α That is also derived from the American 5 Water Works Association. 6 7 And why is it here? What -- what does 0 that 96,000-gallon number, how does that play into 8 9 your figures? 10 Again, without the electronic 11 spreadsheet in front of me I want to be cautious, 12 but I believe that the Water Works data is presented 13 on -- or in some cases presents on a per household basis on what an expenditure would be. And so in 14 15 order to derive the price per gallon, you would take the average household number of gallons and the 16 17 average expenditure per households to get the 18 average price per gallon. So it sounds like you don't remember, 19 Q 20 but you might have, in developing your opinions, you might have taken -- done a calculation not 21 2.2 represented here where you took the total average 23 gallons of water per household and divided it by the 24 total expenditure on water per household? That calculation is actually shown on 25 Α

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Page 159

this worksheet, at least I believe it is. And that's on the right-hand side where you see, in the middle of the growth rate section there -- are you following me? We see 446, 481, 489, 501, 525.

Those amounts all correspond with page 2 for the average expenditures of water. And then I believe that amount is divided by the 96,000 gallons per household to get the rate per gallon, which is what's shown just at the left of those three-digit hundred dollar figures.

Q So if we go back to paragraph 17 of your report where you say, "I have examined current and historic consumer water prices on a gallon basis from the American Water Works Association water rate survey," should I construe that statement as to be you calculated price per gallon or that the survey contained its own calculation of price per gallon?

A I think you can certainly infer that I've done a calculation on a price per gallon.

Again, it's been quite some time since I've looked at the water rate survey data. If you have it we should probably look at it to get the best possible testimony here.

But again, these are mathematical identities. So I think it would be inappropriate to

say that there isn't information about the price per gallon of water contained in the water rate surveys because it's only basic math in order to make that determination.

VIDEO OPERATOR: Four minutes.

BY MR. LOGAN:

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Q But sitting here today, you're not sure if the American Water Works Association survey that you looked at contained price per gallon or contained the numbers that you used to calculate price per gallon? You're not sure?

A What I'm telling you is that these are mathematical identities, and so that information is presented in one form or another in the American Water Works surveys.

Q Does the American Water Works survey differentiate between a base or a fixed charge as opposed to a variable charge for water?

A My recollection is that it does.

Q How did the difference between a base charge and a variable charge play into your calculation of damages here?

A Without looking at that workpaper I don't have a memory one way or another, but it's definitely something that was considered as I

Page 161 performed the analysis. 1 2. MR. LOGAN: Why don't we take a break 3 here. VIDEO OPERATOR: The time is now 4 approximately 2:28. At this point we're going 5 6 to end Videotape Number 2 in today's deposition of Mr. Colin B. Weir on Friday, April 22, 2016. 8 9 We're off the record. 10 (Brief recess.) 11 VIDEO OPERATOR: We are back on the 12 The time is approximately 2:45. This 13 will begin Videotape Number 3 in the today's deposition of Mr. Colin B. Weir on Friday, 14 15 April 22, 2016. BY MR. LOGAN: 16 17 All right, Mr. Weir. Why don't you turn to the section of your report that starts on 18 19 page eight entitled Price Premium Damages. I think 20 from now until the end of the deposition we'll focus 21 on the price premium damages. 2.2 Can you -- I believe we discussed this briefly earlier, but can you generally summarize 23 24 what it was you were trying to accomplish with this 25 section of your report?

A I was trying to measure the price premium that the class has actually paid as a result of Defendants' conduct of marking its washing machines as being y Star certified when, in fact, they were.

Q Now, you emphasized this word "actually," that the class "actually paid." What did you mean by the word "actually" in your answer?

A I mean it's the money that in the aggregate the class has actually paid as a result of Defendants' conduct.

Q Actually paid as opposed to theoretically paid or would have paid? What are -- what are you comparing that to?

A I don't think I'm comparing it to anything.

Q So this price premium damages section was trying to determine the amount of money that the market charged and the class members paid that was attributable to the Energy Star logo?

A I think that's correct.

Q Okay. Why don't we start with -- well, take a higher-level view. There's three different inputs here for the price premium percentage.

There's a Whirlpool number, 55.7 percent; a Dennis

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number, 48.5 percent; and a Sukumar number, 44.3 percent.

Do you see that?

A Well, you described them as inputs, and I guess depending upon how you use that word that may or may not be an accurate description. I think the way I would describe it is that I provide three alternative measures of the price premium that may be then inputted into my price premium calculation.

Q And if we look at the table on page 16 of your report we see here that the math is quite simple. It's whatever the price premium is, as a percentage, multiplied by the total sales resulting in a damages figure.

Do you see that?

A Yes.

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Q And so if you saw evidence that the price premium was 20 percent you could quite easily plug that in here, multiply it times the total sales, and you would result in the damages number?

A I haven't seen evidence that the price premium is 20 percent, but any measure -- I would say any reliable measure of the price premium can be plugged into this formula and you can get a reliable measure of the price premium damages.

Q And if the number of total sales changed because, for example, you were only focusing on one state or a subset of states, you could again easily do that calculation?

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A Right. Again, Table 4 right here is illustrative of the technique and at the time I had been advised that there may be a nationwide class, so it was simple to use the nationwide number. But if the Court approves seven states, we could do seven states in the aggregate or separately. We could do one state.

Again, the methodology remains the same. You just want the measure of the price premium, the applicable measure of the total sales for whatever jurisdiction you're analyzing and then the basic multiplication brings you to damages.

Q There is no reason to think that the price premium changed or would be -- would be different depending on the state? This is a nationwide price premium; is that correct?

A What I -- what I cared about was
Dr. Dennis and Dr. Sukumar confirming that they
believed that this would be projectable to the
class. And so I believe in their reports they
identified that they believe that this is a

Page 165 legitimate measure that could be applied to the 1 2. And, again, it's my understanding of Dr. Dennis and Dr. Sukumar's testimony that these 3 numbers are reasonable estimates for use nationwide 4 or for a seven-state class or for -- or for a 6 subgroup thereof. 7 That's all I have to say on that. Why don't we start with this first 8 Q 9 section of your report, the Whirlpool number. You 10 quote a document, and that document has been labeled 11 as Exhibit 5. And the court reporter will hand it 12 to you. 13 (Document WDDZ0000208 - WDDZ0000215, was marked as Weir-5 for identification.) 14 15 BY MR. LOGAN: Exhibit 5 is Bates-labeled WDDZ0000208 16 17 to -215, I believe. 18 And you see you quote at length what I believe is the first page of Exhibit 5, and you 19 20 also, in paragraph 26 of your report, copy what looks like a slide, which is on page 2 of Exhibit 5. 21 2.2 Do you see that? 23 Α Yes. 24 Where does this 55.7 percent number Q 25 come from?

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I believe that is the delta as between Energy Star and non-Energy Star washers expressed as a discount from the Energy Star -- did I say dishwashers? I meant to say clothes washers. They're side-by-side here. Let me start that again. My apologies. I believe it is the delta between Energy Star and non-Energy Star clothes washers as a percentage of the Energy Star clothes washers as shown in the slide that I have reproduced in my Declaration. That's to the best of my recollection as I sit here right now. Q Does the information on page 1 of Exhibit 5 inform your calculation of 55.7 percent, to the best of your recollection? Or is it solely based on page 2? Α To the best of my recollection, again without going back to my original workpapers, I believe it's the information on page 2. Although my opinion about the likely presence of a price premium is certainly informed by page 1. Q Might the price premium attributable to Energy Star change over time? My apologies. My microphone keeps Α getting tangled up down here.

My understanding of the measurement of the price premium that I have used in this case or measurements thereof is that they are reasonably applied over the relevant time period in this litigation.

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O Which is 2009 to 2010 or thereabouts?

A I believe the majority of sales took place in 2009 and 2010. Again, my understanding is that Dr. Sukumar and Dennis felt comfortable that their research would apply both to the bulk of those sales in '09 and 2010, but also to the limited sales that took place in 2011 and onward.

Q But depending upon when a researcher was analyzing the market, they might find it, at least as conceivable that they would find a price premium that changes over time for Energy Star?

A Again, that's not my understanding of what Dr. Dennis and Dr. Sukumar have done. I believe that they've -- at least they've testified that they've calculated a premium that is reasonable projectable to the class at issue in this case, namely estimating the price premium paid by this class over the relevant time period.

Q Now, we will get to Dennis and Sukumar later.

For Exhibit, 5 which informs your Whirlpool number of 55.7 percent, do you know who drafted Exhibit 5?

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A I believe this document was attached perhaps to an e-mail, so I may have known at one point, but as I sit here today, I don't have a recollection. But my memory is that this is a document that was prepared internally at Whirlpool for Whirlpool.

Q Sitting here today you don't know who drafted this document? That's your testimony?

A Again, I believe that the documentary evidence speaks for itself, but I don't have a recollection of all of the voluminous documents that I've looked at in this case.

Q These numbers on page 1 of Exhibit 5, what is the source of these numbers?

A These numbers come from a Whirlpool Government relations analysis of Energy Star-qualified products.

Q And when was that analysis undertaken?

A I believe in the 2009 to 2010 time frame.

Q And why would it be important that the analysis take place in the 2009 to 2010 time frame?

Page 169 I didn't say that it was important. 1 2. You asked when it was. Is that significant to you that it took 3 Q place in the 2009 to 2010 time frame? 4 That seems to fall squarely within the 5 6 time period that we're analyzing here, but again, I don't have -- I don't place particular import on the exact date that the study is performed. 8 9 0 Now, why don't we look at Bullet 3 in the first paragraph on page 1 of Exhibit 5 which has 10 11 to do with clothes washers, and it says that 12 "clothes washers -- Energy Star clothes washers have 13 an average sale price that is 66 percent higher than non-qualified models." 14 15 Do you see that? I do see that. 16 Α 17 Do you know where this 66 percent number came from? 18 19 Whirlpool's Government relations Α 20 department. 21 0 Do we know -- I'm sorry. 2.2 Do -- do you know if this number is accurate, 66 percent? 23 24 Α Again, I believe I made an independent calculation based upon the Whirlpool data that's 25

contained in this document that is slightly lower, which is why I relied upon my calculation rather than on the number on page 1.

Let's look, then, page 2 and where you 0 did your calculation. Referring to the graph on the lower part of page 2, we see a bar for Energy Star clothes washers versus non-Energy Star clothes washers and we see \$702 for Energy Star and 311 for non-Energy Star. Is -- is that how you read this?

> Across the category, yes. Α

And I -- I have not done the math, but 0 I believe that your testimony is that there is a somewhat 57.7 percent difference between the 311 and To clarify that, you would need a the 702? reduction of 57 --

> I think it's 55.7. Α

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Α I don't know if you meant to --

My apologies. Q

I just wanted to make sure the numbers Α I believe it is a 55.7 reduction from are right. the average Energy Star price to the average non-Energy Star price.

Q Now, these numbers, are they comparing comparable clothes washers in the sense that you

800-567-8658

Page 171 could attribute the price difference to Energy Star 1 and not to other factors? 2. That's how I read this graph here 3 Α because they're showing only the delta appreciable 4 to the Energy Star. 5 Are you familiar with front-loading 6 7 clothes washers? Α 8 Yes. 9 0 Are you aware of whether or not front-loading clothes washers sell for a higher 10 11 price generally than top-loading clothes washers? 12 I think it depends on which washers 13 you're comparing. Have you examined that information? 14 Q 15 At some point in time I've looked at 16 that, but I don't have that in mind right now. 17 Did you do any inquiry to determine whether or not this 702 figure that we see in -- on 18 page 2 of Exhibit 5, does that include only 19 20 top-loading clothes washers or does it also include 21 front-loading clothes washers? 2.2 Α It may very well contain both. 23 Do you know where the 702 figure came 0 from? 2.4 I believe it's internal Whirlpool data. 25 Α

Page 172 Do you know if that data was reliable? 1 0 2. Α It was reliable enough that the 3 Government relations department decided to put it together in a memo to circulate within the company 4 and base their business decisions upon it, yes. 5 6 Do you have any indication that 7 business decisions were based upon Exhibit 5? I have reason to believe, based upon 8 Α 9 the text of this document that it was prepared such 10 that it would be available for use in making 11 business decisions. Whether anyone actually used it 12 or not, I don't know. 13 Do you know if the author of this document is still employed at Whirlpool? 14 15 Α As I sit here today, I don't have a 16 memory one way or the other. 17 Would it matter to you in determining whether or not to rely on this data if the author of 18 19 this document had been fired after coming up with 20 it? 21 Α I'm sorry. 2.2 MR. DECKANT: Objection. THE WITNESS: Can I hear the 23 24 objection -- question back, please? 25

Page 173 BY MR. LOGAN: 1 2. Q Yes. Would -- would it matter to you in whether or not you would want to rely on this 3 data if the author of this document was fired soon 4 after drafting it? 5 I would need more information to make a 6 7 decision about that. The fact that this data is allegedly 8 Q internal at Whirlpool, where are you basing that --9 that -- that assumption on? 10 Again, I think -- you've provided this 11 12 to me a little bit out of context because I believe 13 it's attached to e-mail correspondence that provides greater detail about the providence and use of the 14 15 document. But I think you can just read this and understand that it's a Whirlpool Government 16 17 relations analysis of -- so it's coming from 18 Whirlpool. They're doing this internally. I mean, 19 it's just obvious to me from reading this document 20 that it's an internal analysis. 21

Q I guess the question is, what indication do you have that this is a reliable internal analysis, that these numbers are correct?

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A Again, I take it from the department that has been cited here, the Government relations

Page 174 department, I take it from the summary sheet here 1 2. which is suggesting that Whirlpool can make decisions to increase its revenues and profits and 3 from other context of the document that that's the 4 case. 5 What information would you need to know 6 7 in order to determine whether or not this data is reliable? 8 I think I had that information as I 9 Α just cited to you. I also have the data from 10 11 Dr. Sukumar and Dr. Dennis that have developed very 12 similar estimates. 13 All right. Let's mark this as Exhibit 6. 14 15 (Whirlpool Corporation Services 2008 16 Energy Star Sustained Excellence Award, 17 WDZ000472 - WDZ000478 was marked as Weir-6 for identification.) 18 BY MR. LOGAN: 19 20 The court reporter has marked for you Exhibit 6, a document Bates-labeled WDZ0000472 to 21 2.2 -478. Do you see that? 23 24 Α Yes. And you cite this document in 25 Q

Page 175 paragraph 27 of your report. 1 2. Do you see that? 3 Α Yes. And specifically you cite language on 4 0 page 476 that Energy Star products sell at a higher 5 price than non-qualifying products resulting in 6 7 higher revenues. 8 Do you see that? 9 Α Yes. 10 The date of this document on the front 0 11 is March 4, 2008. 12 Do you see that? 13 Α Yes. Would that indicate to you that any 14 15 data contained in this document was produced prior to March 4, 2008? 16 17 Α It doesn't give that indication 18 directly, no. Well, it -- it couldn't give revenue 19 numbers for the future, could it? 20 21 That's correct. 2.2 Turn to page 476, which you quote in Q page -- paragraph 27. And we see a graph under the 23 24 text that you quote with -- with regards to higher 25 revenues.

Page 176 Do you see that graph? 1 2. Α Yes. What is -- it does not say here where 3 this data came from; is that right? 4 Well, it indicates that it comes from 5 6 information about Whirlpool Corporation's Energy Star-qualified products. Do you know if this is nationwide or 8 9 North America-wide or global? Do you have any 10 information with regards to this graph? 11 As I sit here today, I don't have a Α 12 memory one way or another. 13 Do you know if it -- if this graph contains data from 2007, 2008 or earlier? 14 15 Α Again, as I sit here right now, I don't 16 have a memory one way or another. 17 It doesn't say it, does it, on this Q 18 page? Well, this is being -- you have to 19 Α 20 understand the context of this document. They've just -- Whirlpool has just won a 2008 Energy Star 21 2.2 Sustained Excellence Award, and it's presenting information that it believes is relevant to its 23 24 current position in the marketplace as a leader with Energy Star appliances. 25

And, again, I'm trying to remember if there's additional context other than the Bates pages that you cite here. Hold on. Let me just take a quick look through here.

This is done in sort of a press release or investor standard format, so these are trying to provide information that are going to be relevant to people who are analyzing the Whirlpool Corporation.

Q Are these numbers accurate? Did Whirlpool get it right?

A I haven't undertaken an independent analysis. All I've used this document for is to cite just one additional piece of evidence that Energy Star products generally cost more than their non-Energy Star counterparts, which I really just have seen zero pieces of evidence to counter -- contradict that fact.

MR. LOGAN: Let me mark that.

(The value of the Energy Star market,

WDZ0000280 - WDZ00030207 was marked Weir-7 for

identification.)

BY MR. LOGAN:

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Q The court reporter has given you

24 Exhibit 7, WDZ0000204 through -207.

Do you see that?

Page 178 Α Yes. 1 2. Q And you cite this document in Footnote 21 of -- of your report. 3 4 Do you see that? Α Yes. 5 And you refer to this document as a 6 0 7 meta-analysis; is that correct? 8 Α Yes. 9 What is a meta-analysis? 10 A meta-analysis usually aggregates Α 11 information or conclusions from multiple studies. 12 So if you look here on Bates ending 206, you see a 13 variety of source documents cited for the information that's presented in this document. 14 15 And all of the source documents listed 16 under sources on page 206 are from 2003 or earlier? 17 Α Yes, that's right. What information, from this document, 18 0 19 do you think is relevant for a time period of 2009 20 to 2010? 21 Well, all of these documents that I 2.2 cite here need to be understood in a holistic 23 approach and not looking at any one of these 24 documents independently. This shows that there is, in concert with the other documents, a sustained 25

expectation that consumers will and do pay price premiums for Energy Star appliances, no matter what the time period that you're examining.

Q Does this document say that people are willing to pay price premiums for Energy Star appliances?

A That's clearly implied here in this document, yes.

O Where?

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A It shows that Energy Star purchases are increasing. 93 percent of consumers say they will look for the Energy Star product. That means that the Energy Star is a major product differentiator, which is something that is indicative of price premium. 84 percent of people agreed that it's important household appliances to have the Energy Star label.

I'm not done yet.

Q Okay.

A 50 to 60 percent say that the presence of the Energy Star mark influenced their purchase decision. 95 percent say they will be repeat Energy Star purchasers. 71 percent say they will recommend Energy Star to a friend.

Incentives aren't required. In other

Page 180 words, they don't have to be -- consumers don't need 1 2. to be incentivized to actually pay more on the product. I mean, this whole document --3 0 To pay more for the product, were 4 you -- is that language here? 5 6 Incentives aren't required. In order 7 for an incentive to be required, you'd have to have a reason not to buy an Energy Star product, and the 8 only reason that I can understand, based upon the 9 10 contents of this document, would be that they are 11 more expensive. I mean, virtually every sentence in 12 here, especially when read in the context of the 13 whole document, and the other evidence in the case suggests that consumers are willing to and do pay 14 15 price premiums for the Energy Star. MR. LOGAN: Let's look at -- let's mark 16 17 this. (Document WDZ0000005 - WDZ0000020, was 18 marked Weir-8 for identification.) 19 20 BY MR. LOGAN: 21 The court reporter has marked for you 2.2 Exhibit 8, Bates-labeled WDZ0000005 through -20. And you cite page Bates-labeled 9 in Footnote 22 of 23 24 your report. 25 Do you see that?

Page 181 Α 1 Yes. 2. Q And the language that you cite is a finding that "Energy Star is the second most 3 influential label in the marketplace." 4 Do you see that? 5 6 Α Yes. 7 It is -- this is in very small print, but it looks like there is a source for the 8 9 information on this graph at page 9, but I -- I 10 cannot read what it says. But do you see that where 11 it looks like it says source? 12 I have a memory from seeing this in a 13 copy that you can zoom in on that this is either Fairfield or Fairchild Research, July 2009. 14 15 So it's safe to assume that there was 16 some sort of study conducted that made this determination? 17 18 Α I believe that's correct, yes. 19 Did you look at the underlying source Q 20 material that Fairfield or Fairchild study? 21 I didn't look at that particularly, but I understand that Whirlpool, at least at the time 22 period that this graph was created, used this in a 23 24 lot of its publicity and discussions about the 25 Energy Star.

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Page 182
                   MR. LOGAN: Let's mark that.
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 2.
                   (Compilation of documents, WDZ0018976 -
           WDZ0018998, was marked Weir-9 for
 3
            identification.)
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     BY MR. LOGAN:
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                   The court reporter has marked for you
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     Exhibit 9, a document Bates-labeled WDZ0018976
     through -18998.
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                   Do you see that?
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           Α
                   Yes.
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                   And you cite this document in
            0
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     paragraph 30, Footnote 23 of your report.
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                   Do you see that?
14
           Α
                   Yes.
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                   And if we turn to the page that you
     cite, which is 18993, we see some familiar numbers
16
17
     for clothes washers.
18
                   Do you see that?
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           Α
                   There are numbers here relating to
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     clothes washers?
                   Specifically that the Energy Star
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22
     clothes washer costs $702 versus a non-Energy Star
23
     of $311.
24
                   Do you see that?
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           Α
                   Yes.
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Page 183 And I believe that those are the same 1 0 2 numbers on the graph in your report quoted in 3 paragraph 26 of your report, 702 versus 311. Yes, they are. 4 Α If you turn to the front page of this 5 6 exhibit you see that this was an e-mail dated 7 September 25, 2007? 8 Α Yes. 9 And we see an e-mail on that page that says, "Hi, Mike. Attached is an Energy Star 10 presentation I gave yesterday." 11 12 And it is -- this is an e-mail from 13 Andy Sinclair. 14 Do you see that? 15 Α Yes. 16 So if Andy Sinclair gave this 17 presentation in 2007, what does that tell you about 18 the numbers for the Energy Star versus non-Energy 19 Star clothes washers on page 16 of this 20 presentation? 21 I don't know that it tells me anything 22 about those numbers, in particular. 23 Maybe that they predate September 2007? Q 24 Α That may be true. 25 Q Maybe they're from 2003?

Page 184 MR. DECKANT: Objection. 1 THE WITNESS: I don't think that's 2. indicated in this document. 3 BY MR. LOGAN: 4 What is indicated in the document as to 5 the date that these numbers -- that -- let me -- let 6 7 me rephrase. Is there anything in this document that 8 9 tells you when these numbers were -- were gathered? 10 This document doesn't provide an indication of the date of those numbers. 11 12 Do you have any personal information 13 that would provide a date for these numbers? Α I don't believe I bring anything 14 15 personal to this. I'm here testifying as an expert today. 16 17 Let me rephrase. Do you have any evidence that indicates when these numbers were 18 19 gathered? 20 I'd say the documents that I have reviewed speak for themselves. I started out today 21 2.2 by informing you that I would need to look at the 23 details of documents to give you precise information like that. So unless you are -- you have other 24 exhibits to help refresh my recollection, as I sit 25

Page 185 here right now, I don't know. 1 2. Q The average retail price that you calculated for the clothes washers at issue in this 3 case was 406; is that right, approximately? 4 On a nationwide basis, yes. 5 And that is a lot closer to the \$311 6 0 7 non-Energy Star clothes washer than it is to the \$702 Energy Star clothes washer as stated in -- on 8 9 page 16 of Exhibit 9? 10 You've just grossly mischaracterized those data points. 11 12 How is that? Q 13 Α So I don't agree. You think that 406 is closer to 702 14 0 15 than it is to 311? That's your opinion? That's not what you asked me. 16 Α 17 That's exactly what I asked you. Q THE WITNESS: Can I hear back his 18 19 question, please? 20 (At which time the following question 21 was read back by the reporter: 2.2 "Question: And that is a lot closer to 23 the 311 non-Energy Star clothes washer than it 24 is to the 702 Energy Star clothes washer as stated in -- on page 16 of Exhibit 9?") 25

Page 186 THE WITNESS: You've characterized 1 2. these as individual prices of individual clothes washers, and that's not what this 3 document indicates. 4 BY MR. LOGAN: 5 This document indicates that there are 6 7 several clothes washers that it is considering. It certainly does. 8 Α 9 All Whirlpool clothes washers? That's your testimony? 10 11 It indicates a category of clothes 12 washers that are Energy Star versus a category of 13 clothes washers that are non-Energy Star. How many clothes washers models were 14 0 15 included in this study? As I sit here right now, I don't have a 16 17 recollection one way or the other. 18 0 But you've never seen data that would give you the answer to that guestion, have you? 19 20 А I don't know that to be true. 21 You don't know that to be true. So 22 let's turn to paragraph 33 of your report --23 Α Okay. 24 -- where you say "Whirlpool had made Q its own calculation of the price premium 25

Page 187 attributable to the Energy Star logo on its washing 1 machines." 2. 3 Do you see that? Α 4 Yes. And what you're telling me is that the 5 calculation that you are relying on in your 6 7 report -- in your report to arrive at the price premium of 55.7 percent, you know basically nothing 8 about how those numbers were calculated? 9 10 MR. DECKANT: Objection. 11 THE WITNESS: I disagree with that 12 characterization. 13 BY MR. LOGAN: Tell me everything you know about how 14 15 these numbers were calculated in order to get to the 55.7 percent. 16 17 MR. DECKANT: Object to form. Is there 18 a question pending? 19 MR. LOGAN: That was the question. 20 MR. DECKANT: Could you please read 21 that back. MR. LOGAN: Let me -- let me rephrase. 2.2 BY MR. LOGAN: 23 You have admitted that the 55.7 percent 24 Q is based upon the difference between -- I believe it 25

Page 188 was 702 and 311 and you have no idea where these 1 numbers came from, 702 and 311, what models were 2. considers, what features were considered, what time 3 period was considered and what geographic scope was 4 considered; isn't that your testimony? 5 It is not. 6 Α 7 0 Tell me what was the geographic scope of the study that concluded a 55.7 price premium 8 9 excitant for Energy Star. 10 MR. DECKANT: Objection. Object to form. 11 12 THE WITNESS: Upon consideration of 13 this and having seen some more of these documents, I remembered that of course the 14 15 Energy Star is a U.S.-only program. So it's related to the U.S. 16 17 BY MR. LOGAN: It's your testimony that there is --18 Q 19 MR. DECKANT: Did you finish your 20 answer? THE WITNESS: Yes, I'm finished. 21 2.2 MR. DECKANT: Okay. 23 BY MR. LOGAN: So there is no reason to think that 24 Q someone out of the United States, a consumer outside 25

Page 189 the United States, would have knowledge of the 1 2. desirability of Energy Star? 3 Α That's not what I said. It's your testimony that there is no 4 0 equivalent Energy Star-type program in Canada or 5 6 Europe? 7 That is also not what I said. You are testifying that the geographic 8 Q 9 scope of this study was the United States? 10 Α Because it relates to the U.S. EPA's 11 Energy Star program. 12 Q From what time period? 13 Α Again, I've asked you to provide me the contextual documents relating to the document that I 14 15 cite in my report. You haven't done so. As I sit 16 here today, I can't provide a recollection to you. 17 Exhibit 9 includes an e-mail from 18 September 25, 2007. Exhibit 9 is not the document that I 19 Α 20 cite in my Declaration as support for my conclusion 21 that it may be appropriate to use the 55.7 percent 2.2 price premium calculated internally by Whirlpool's own Government relations department. 23 But it is the presentation that is 24 Q attached to the e-mail beginning with Exhibit 9? 25

Page 190 No. What I cite in my Declaration as 1 2 the support for the 55.7 percent is Bates WDZ0000209. 3 Which is a graph that is identical to 4 0 the graph that appears to page 17 of Exhibit 9 and 5 6 contains the same information for Energy Star versus non-Energy Star clothes washers? They do look to be the same, but it is 8 Α not the same document that I'm looking at. 9 10 But it's the same graph? Q 11 It appears to be the same graph. Α 12 So do you know -- just to clarify, you 13 do not know who conducted the study that resulted in these numbers? 14 15 I don't know precisely who it was, but it's clearly being sponsored by Whirlpool's 16 17 Government relations department. 18 Who is the Whirlpool Government Q 19 relations department? How many people are in it? 20 Α That's well beyond the scope of my 21 analysis here. I don't know. 2.2 Do they have Ph.D.s in statistics? Q 23 How could I know that? Α 24 Q I don't know. I'm asking you. Do you 25 know that or not?

Page 191 I don't know one way or the other. 1 Α 2. Q And we've already been over this. You don't know the time period that this study took 3 place? 4 Again, as I sit here today, I don't 5 6 have a precise recollection. You have, first of all, continued to mischaracterize my testimony about the time period and refused to provide the 8 9 surrounding documentation that I've requested to 10 refresh my recollection. 11 I am not aware of any surrounding 12 documentation. And I have also looked at every 13 document that you cited in your report. I don't see any documents that would give you more information 14 15 than what you have here. So I'm just representing that to you. There's no tricks up my sleeve. I'm 16 17 not trying to hide information from you. I need you 18 to admit that you have no idea where these numbers came from. 19 20 MR. DECKANT: That's -- that's not a 21 question. Object to form. 2.2 Is there a question pending? 23 MR. LOGAN: There is not a question 24 pending.

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Page 192 BY MR. LOGAN: 1 Does this study include Maytag clothes 2. Q 3 washers? As I sit here today, I don't recollect 4 Α one way or the other. 5 Does this study include Amana clothes 6 7 washers? As I sit here today, I don't recollect 8 9 one way or the other. 10 Does this study include KitchenAid clothes washers? 11 12 As I sit here today, I don't recollect 13 one way or the other. The information that you do recollect 14 about how these numbers were created is that someone 15 in the Whirlpool Government relations team drafted 16 17 this document? That's the information you have about this study; is that right? 18 That is one of the pieces of 19 Α 20 information I have about this that I recollect here 21 today. 2.2 What other pieces of information did you consider in order to substantiate the numbers in 23 this analysis? 24 That is a very broad category of 25 Α

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things. It includes the results of the Dennis and Sukumar surveys. It includes a lot of the documents that we cited here today. It includes my background, research on the price premium for Energy Star appliances. It includes my expertise in making these calculations in other litigations. It includes my research based on the Energy Star outside of litigation. Every single piece of evidence that I have seen points to price premiums of this order of magnitude for washing machines of Energy Star-certified nature versus those that are not.

Q If there was a price premium of 55.7 percent and the average retail price for these clothes washers is \$406, what would that tell you about what this -- what the market would have priced these clothes washers at had the Energy Star logo not been there?

A I haven't made that analysis, but what I would tell you is that consumers have been paying a price premium of the 55.7 percent of the purchase price because of the presence of the Energy Star logo.

Q Meaning that an equivalent machine that did not have the Energy Star logo would have been

priced at 55.7 percent less than \$406, average retail price?

A These in not my testimony. It's meaning that consumers would have paid a 55.7 percent price premium as a result of the washing machine bearing the Energy Star logo.

Q I'm -- I'm just confused as to the difference.

Could you explain, what is the implication of -- for market prices of the fact that there is a 55.7 percent price premium for the Energy Star logo for the clothes washers in this case?

A The implication is that if liability is established that amount is or should be economically available to the Plaintiffs in this class as damages because that would be the amount that they paid in the marketplace as a direct result of the Energy Star logo being applied by the Defendant when, in fact, it should not have been.

Q So that is the -- that is the amount that the class members paid in the marketplace as a direct result of the Energy Star logo being applied to the clothes washers in this case?

A Correct.

Q Had that logo not been there, your

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testimony is that the market price would have been different?

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A I haven't testified anything about what might have happened had the logo not been there. My testimony is related to what consumers actually paid because the logo was there. And that amount is somewhere between mid-40s and mid-50s percent of the purchase price.

Q So you have no information about what consumers would have paid had the logo not been there?

A My analysis is designed to calculate the price premium that consumers actually paid as a result of the logo being there.

Q Does that imply that had the logo not been there they would have paid less?

A I have not made a consideration one way or the other.

Q So it's -- I'm trying to reconcile your -- your testimony here, is that consumers actually paid a price premium for the presence of the Energy Star logo, but it seems like you're also saying that they did not necessarily pay more because the logo was there?

A That's not my testimony.

Page 196 What is your testimony? 1 0 2. Α They definitely paid a price premium because the logo is. 3 But would not have been paid less had 4 0 the logo not there? 5 I haven't said that at all. 6 Α 0 Do you agree with that? 8 Α Agree with what? Please restate that. 9 0 That they would have paid less had the 10 logo not been there. 11 I haven't made an analysis of that one Α 12 way or the other. What I've done is to analyze what 13 consumers actually did pay as a result of the presence of the Energy Star logo when it should not 14 15 have been there. 16 So I have done no analysis to compare 17 what they did pay because the logo was there versus 18 what they would not have paid had the logo not been 19 I'm sorry. What they would have paid had 20 the logo not been there? 21 It's my understanding that we needed to 2.2 determine the price premium that was actually paid 23 by consumer as the result of the logo being there, and that's what I've done. 24 25 Q What is the price premium?

Page 197 It depends on the context. 1 Α 2. Q The context of your report. It's the price that people paid as a 3 Α result of the washing machines having been labeled 4 as Energy Star certified when, in fact, they were 5 6 not. 7 People paid \$406 on average for these 0 clothes washers, correct? 8 9 Α On a nationwide basis, yes. And you were trying to determine what 10 0 percentage of the 406 was due solely to the Energy 11 12 Star label? 13 Α Correct. How were prices set in the marketplace? 14 0 15 Α Again, I need more information in order to answer that question. 16 17 Are prices not set through the Q interaction of supply and demand? 18 19 Α They may or they may not be. 20 In this case were they? Q 21 In this case we have a product that has been differentiated and carries a price premium, 2.2 which means that the sellers of the product have 23 24 some control over the market price, which is what 25 allows them to charge a marketplace price premium,

Page 198 for example, as a result of the Energy Star logo. 1 2. So you believe that the sellers have 3 had in 2009 to 2010 market power that allow them to charge a price premium for Energy Star clothes 4 washers; is that your testimony? All of the evidence points to that, 6 Α 7 yes. What evidence points to that? 8 Q 9 Α Whirlpool's analysis that its profit 10 margins are higher on Energy Star washing machines 11 as opposed to not, the fact that revenue is higher. 12 All of these same data points that we're talking 13 about that indicate that there's a price premium. All of that data was from before 2009; 14 0 15 isn't that correct? I don't necessarily believe that to be 16 17 true. Can you point to any evidence as you 18 Q sit here today from 2009 to 2010 that there was a 19 20 price premium for the Energy Star logo in the clothes washer market in the United States? 21 2.2 MR. DECKANT: Objection. 23 THE WITNESS: Sure, the Dennis and 24 Sukumar surveys. 25 BY MR. LOGAN:

Q None of that was from 2009 and 2010; isn't that correct?

A It is designed to capture information applicable to the 2009 and 2010 time period.

Q If they did not accurately capture information from the 2009 to 2010 time period then their analysis would be off; is that correct?

A I don't know how to answer that tautological question.

Q You said that they captured information applicable to the 2009 and 2010 time period. That's your testimony?

A I believe that's their testimony.

Q When, in fact, it was a survey conduct -- these were surveys conducted in 2015.

A You're suggesting that those things are antithetical to one another and I disagree, and I think Dr. Sukumar and Dr. Dennis would disagree as well.

Q Did you do an analysis of how competitive the market for Energy Star clothes washers was in 2009 to 2010?

A Other than my analysis of the Maytag profit margins and other things, I haven't studied that specifically. It's not necessary to understand

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Page 200 the price premium that's being charged in that 1 2. marketplace. Isn't it necessary to understand the 3 competitive market for Energy Star clothes washers 4 when you were trying to determine whether or not 5 there was a price premium? 6 7 Not when we have the actual sales figures that reflect the competitive conditions 8 9 extant at that time. 10 How many -- how many top-loading Energy 11 Star clothes washers models were for sale in 2009 12 and 2010? 13 As I sit here today, I don't have a recollection of that number. 14 15 What was the Whirlpool's profit margin 16 on top-loading Energy Star clothes washers in 2009? 17 As I sit here today, I don't have a recollection of that number. 18 19 Same question for 2010. Q 20 Α Same answer. 21 Were any clothes washers for sale 2.2 during 2009 or 2010 that were between 180 and \$220? I'm sorry. Can I hear that back, 23 Α 24 please? Were there any clothes washers for sale 25 Q

during 2009 or 2010 that were between 180 and \$220?

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A That has no import to my analysis, so I haven't made a study of it one way or another.

Q Was there a comparable non-Energy Star top-loading clothes washer for sale in 2009 and 2010? And by "comparable," I mean comparable to the clothes washers at issue in this case?

A Well, you've attempted to define "comparable," but I still don't understand what you mean by that term.

Q Was there a clothes washer that was similar in build, features, brand that was non-Energy Star on the market in 2009 and 2010?

A I am not aware of any evidence that there was a washing machine that is non-Energy Star qualified that is the same in all other respects in -- as the model that is at issue in this litigation.

Q If there was evidence of that nature, would you want to know about it?

A It wouldn't impact my -- it wouldn't impact my analysis in this case at all.

Q So if, in 2009 and 2010, there were two identical Maytag top-loading clothes washers for sale retail and one was Energy Star and one was

Page 202 non-Energy Star, you would have no interest in 1 learning that information in order to calculate a 2. price premium? 3 Is that a hypothetical, or are you 4 Α asserting that that's an actual fact? 5 I'm asking you a hypothetical question. 6 7 I would need more information about what's going on in the marketplace in those products 8 to understand that. 10 Did you examine any historical data, 11 for example, catalogues, price lists, to understand 12 the clothes washer market in 2009 and 2010? 13 Α I did examine some historical product quides and lists of products, especially from the 14 15 Whirlpool company, as part of my analysis. 16 And what did your review of that data 17 tell you? 18 Α There was nothing in specific that I 19 took away from it other than some precise 20 information about the products at issue in this litigation and confirming my sense that the 21 2.2 application of either Whirlpool or Drs. Dennis or 23 Sukumar's price premium figure would be appropriate in this litigation. 24

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Let's move on to Dennis, which I

Page 203 believe was previously marked as Exhibit 2. 1 2. MR. LOGAN: Everyone still good? 3 BY MR. LOGAN: You've read this document before? 4 Q Α I have. 5 And can you describe the methodology 6 0 7 that Dr. Dennis used to come up with this report? At a high level Dr. Dennis used a 8 Α 9 contingent valuation survey with an experimental 10 design to determine the marketplace price premium 11 that consumers actually paid as a result of 12 defendant's conduct in this litigation. 13 Q At a high level, this survey asked its respondents to identify what they would be willing 14 15 to pay for an Energy Star clothes washer; isn't that right? 16 17 Absolutely incorrect. Α 18 And why is that incorrect? 0 19 Α Well, I guess it depends on how you 20 define "willingness to pay," but I define "willingness to pay" as the maximum amount that 21 2.2 somebody would be willing to pay for a clothes 23 washer and this doesn't in any way get at that 24 particular information. This is only the price 25 premium that consumers paid in the marketplace.

Page 204 What about this survey indicates that 0 1 2. it is trying to find the actual marketplace price 3 premium? Α What about the survey itself, or what 4 about the Dennis report and his testimony in this 5 6 litigation? 7 Let's go with -- with the Dennis 0 report. 8 9 Α I believe a reading of the report will 10 make it clear that he's looking at the price premium 11 that consumers paid. I know he's testified 12 similarly at his deposition. 13 Your testimony is -- I'm sorry. I see this as a little bit tautological. 14 15 He's looking at market prices because 16 he's looking at the price premium that people paid 17 in the marketplace. Why do you say that this is a reflection of actual marketplace reality? 18 Why do I think it is? 19 Α 20 Q Yes. 21 It's based on a sample that is 2.2 projectable to the class. It is based upon the 23 actual retail sales data for the products at issue in this case. 24 25 Q When you say it is based on the actual

retail sales data for the products at issue in this case, what do you mean?

A I believe Dr. Dennis took information about the typical retail sales price and informed his creation of his survey questionnaire to utilize that information.

Q So he used a price -- you can see it on page 14 of his report, the Energy Star clothes washer as being \$400, which is approximately the average retail price of this case.

A That's correct.

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Q Is there anything else that he did in order to base his survey on actual retail sales data for the products at issue in this case?

A First of all, I think that's a question better levied to Dr. Dennis since he's the one that conducted the survey. But I am aware that he has controlled in his survey design for people that have purchased washing machines that relate to the products at issue in this case and has implemented other survey controls to allow this to be a survey result projectable to the class and to the products at issue in this litigation, and that Dr. Dennis testifies that the price premium he calculates is, in fact, representative of the class.

Page 206 Well, let me point you to some language 1 2 in your report, paragraph 45, where you say, "I understand Dr. Dennis considered and accounted for 3 supply-side factors in the determination of his 4 price premium calculation." 5 Do you see that? 6 7 Α Yes. And you have a footnote, and it is to 8 Q 9 the Dennis report at 3 and 12. 10 Do you see that? 11 Α Yes. 12 What did you mean by "3 and 12," is 13 that pages or paragraph numbers? Α Pages. My reports typically say at a 14 15 number when it's at a page and at para, if it's a 16 paragraph. 17 What information on page -- well, let me take a step back. 18 19 What do you mean by "supply-side 20 factors"? 21 A number of things that are discussed 22 by Dr. Dennis in his Declaration. Such as? 23 Q Let me go through and identify them 24 Α from the document for you. 25

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Dr. Dennis identifies that he has read and interpreted the Complaint and has used that both to understand the market realities, the washing machines in question, as well as the study target population. He references other materials considered in his attachment, which reference the actual retail sales transactions which reflect prices that are set by the -- in part by the interaction of supply and demand. He again references expressly the actual sales data and advertising circulars which reflect the available supply of both the Maytag and competitive washing machines and their price points. Do you know what competitive washing 0 machines he looked at? MR. DECKANT: Did you finish your prior answer? THE WITNESS: I did not. Would you like my prior answer to be understood as incomplete, or would you like me to finish that answer? BY MR. LOGAN: Why don't you answer the most recent question first and then we'll go back and finish the other supply-side factors considered by Dr. Dennis.

A I did not independently verify which competitors Dr. Dennis looked at. You would need to ask him which ones he looked at in formulating his survey. But it's clear that he did so from a read of his report, and I believe he made that indication in his deposition as well.

Q Okay. You can continue with your previous answer.

MR. DECKANT: Just for the clarity of the record, can we please read back what the question before that was?

BY MR. LOGAN:

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Q I'll ask it again.

What were the supply-side factors considered by Dr. Dennis?

A So in addition to the factors that I already mentioned, his selection of the base price point for the survey is based on the actual retail sales information about the actual supply of washing machines that were sold. That's all that I've cited here. I believe it's possible that there may be other supply-side considerations that he made in his -- in his Declaration as well, or in his work on this.

Q So I want to recap the supply-side

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factors that you can recall being considered by Dr. Dennis. And the first one you cited was that he read and interpreted the Complaint in this case, and that he used a \$400 price point, which was reflective of actual retail sales data; and number 3, that he looked at advertising circulars. Is that exhaustive? Are there any other supply-side factors that you see being considered by Dr. Dennis? I don't accept your summary of my prior testimony and would like my testimony about what Dr. Dennis relied upon to stand on its own. Q Well, I read it here from this machine. But in any event, you cited the Complaint, you cited the \$400 price point and you cited known competitive circulars and advertisements. Are there -- is there anything else? Α That is an unfair summary of my

A That is an unfair summary of my testimony. I do not agree with how you've characterized my testimony and your statement that you have read the record into the record again is inaccurate. You've cherrypicked words from my prior answer in order to mischaracterize what I've said.

Q Okay. Well, then, let's just do it

Page 210 again. 1 The first thing you mentioned -- well, 2. okay. What are the supply-side factors considered 3 by Dr. Dennis? 4 Would you read back my answer to the 5 original question since this is the same question? 6 7 No. We're not going to do that. Q What are the supply-side factors 8 9 considered by Dr. Dennis? State the first one, and 10 then I will have a series of questions about your 11 whatever first part of your answer is. 12 Well, that's a multi-part question. Α 13 Q What's part number one? You said --Α 14 15 0 What's the first supply-side factor that you would like to talk about today considered 16 17 by Dr. Dennis? 18 Α I don't want to talk about any of them 19 today. 20 What -- how many supply-side factors would you say Dr. Dennis considered? Do you have a 21 2.2 number? 23 I don't have a precise count. There's a multitude of them. 24 25 Q Let's -- name one.

A The actual retail prices at which the washing machines were sold.

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Q And why is that a supply side factor?

A Because it reflects to the extent that it impacted prices the interaction of supply and demand, as well as the number of units that were sold, the actual supply of those units extant in the marketplace.

Q Isn't it the case that the price is -that the price is an interaction of supply and
demand, but the price by itself does not tell you
other information about the supply and demand curves
for this product?

THE WITNESS: Can I hear that back, please?

(At which time the following question was read back by the reporter:

"Question: Isn't it the case that the price is -- that the price is an interaction of supply and demand, but the price by itself does not tell you other information about the supply and demand curves for this product?")

THE WITNESS: I believe the price itself can be informative about the supply and demand curves here. And I disagree again with

Page 212 your characterization that the prices at issue 1 2. in this litigation were the direct result of only the interaction of supply and demand. 3 BY MR. LOGAN: 4 What does the \$406 price point tell you 5 about demand -- and supply in this case? 6 7 That washing machines were sold at a \$406 price point. 8 9 0 Anything else? Α You need to understand the number of 10 11 units that were sold. 12 Q Anything else? 13 Α Again, I haven't made that analysis in this case, so I'm not really prepared to get into 14 15 great detail about it today. Okay. That was the first supply-side 16 17 factor considered by Dr. Dennis. Are you aware of any other supply-side factors considered by 18 Dr. Dennis? 19 20 Α Yes. 21 0 Such as? 2.2 He looked at actual sales data and actual advertising circulars, which include 23 24 information about competitor products in the marketplace, as well as competitive pricing. 25

Q All right. So your answer is he looked at actual sales data and actual advertising circulars, which include information about competitor products in the marketplace, as well as competitive pricing?

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A It also includes information about the pricing and sales of the actual washing machines at issue in this litigation.

Q Now, we -- we have talked about the sales figures for the clothes washers at issue in -- in this case, and you stated that you are not aware of which competitor products Dr. Dennis evaluated in his study; is that right?

A Just that he did evaluate the presence of competitor products.

Q All right. So we have now discussed two supply-side factors. Is there a third?

A There is, which I think actually there is one source document, which is the Complaint, but that that includes other supply-side consideration, including information about the marketplace, information about the actual supply of the washing machines issue in this litigation and other information that relates to the marketplace generally.

Page 214 What did the Complaint tell you about 1 2. the supply of these -- well, let me -- let me 3 rephrase that. Actually, did you finish 4 MR. DECKANT: your prior answer? 5 THE WITNESS: We can move along. 6 7 MR. DECKANT: Okay. BY MR. LOGAN: 8 9 0 What did the Complaint tell you about the supply-side factors that affected the market 10 11 price for these clothes washers? 12 Are we having a different discussion? 13 Because I'm talking about the fact that Dr. Dennis considered those things. 14 15 Okay. Same question for Dr. Dennis. 16 What did the Complaint tell Dr. Dennis about 17 supply-side factors that -- that implicated the market price for these clothes washers? 18 I'm aware that it informed his 19 Α 20 opinions, his survey design and his conclusions, but 21 you would have to ask him about the precise things 2.2 that he considered. Are you aware of the term "focalism" as 23 24 it is used in critiquing contingent analysis? 25 Α I would need greater context to

Page 215 understand what that means. 1 2. Have you reviewed economic articles that discussed focalism within the context of 3 contingent analysis? 4 5 I've read a number of peer-reviewed 6 studies of contingent valuation method, but I have 7 no memory of focalism, at least as -- as you're saying it. There may be a different term that means 8 the same thing, but --10 0 Is there a focalism bias in the Dennis 11 report? 12 Not that I'm aware of. Α 13 Q Did you look? 14 Α No. 15 0 I want to look at the results of the 16 Dennis survey. I apologize. I'm not sure what page 17 this is on. Page 18 of the Dennis report. That 18 22 percent of respondents indicated that they would 19 not purchase the non-Energy Star machine for any 20 price. 21 I'm sorry. I think I lost part of the 22 question there. Can you ask it again, please? Sure. Look at the first row of the 23 0 24 table on page 18. 25 Α Yes.

Page 216 When you say elicited dollar amount, 1 0 2. zero? 3 Α Correct. And the percentage of total respondents 4 0 that respond to zero is 22 percent. 5 6 Do you see that? 7 I do. Α And the conclusion here is that 8 0 9 22 percent of the respondents would not pay any 10 amount for a non-Energy Star clothes washer? 11 I think that question is better 12 targeted at Dr. Dennis. 13 Q Do you have an opinion on that question? Do you have an answer for yourself? 14 15 Α I haven't formed an opinion on that 16 topic one way or another. I would say that it's my 17 understanding from my conversations with Dr. Dennis 18 that he felt that at least some portion of the 19 population would not buy these washing machines 20 under any condition without an Energy Star logo. I 21 make reference to that in my declaration. 2.2 Q And so it's fair to say that for that 23 percentage of the population the price premium for 24 Energy Star would be 100 percent because they wouldn't take anything that wasn't an Energy Star 25

Page 217 clothes washer? 1 2. Α I'm sorry. What was the question 3 again? It would be fair to say, isn't it 4 0 right, that for the -- that for that segment of the 5 6 population, the 22 percent, that would not be 7 willing to buy at any price, that the price premium for that segment of the population would be 8 100 percent? 9 10 I don't know whether that's fair or 11 not. 12 Are you aware of a concept of stated 13 versus revealed preference? Stated preference versus revealed preference? 14 15 Yes. I think the easiest way to 16 illustrate it would be that Dr. Dennis has conducted 17 a stated preference survey, whereas Dr. Sukumar has conducted a revealed survey. 18 Do economists tend to prefer stated 19 Q 20 preference surveys or revealed preference? 21 I believe both types of surveys are 2.2 widely used. 23 And they are both equally valid, or is one better than the other generally? 24 I don't think I would pass judgment 25 Α

Page 218 over one or the other. I think they are both valid 1 2. techniques. 3 All right. Let's move on to the Sukumar report, which was previously marked as 3. 4 And to clarify, for Exhibits 2 and 3, these were 5 just the bodies of the report, not all of the 6 exhibits due to the fact that many of the exhibits were Excel sheets and very difficult to print off in 8 9 any way that was intelligible, so you'll have to 10 forgive me. 11 Before you ask your next question, can Α 12 I get a sense of your timing because I may need a 13 bio break before we continue, if this is going to be longer than, say, five to 10 minutes. 14 I think it will likely be longer than 15 16 10 minutes. Why don't we --17 Α Do you mind if we take a break? I've already rescheduled my flight, so 18 0 that's fine. 19 20 Α Okay. VIDEO OPERATOR: It's approximately 21 2.2 4:05. 23 We're going off the record. (Brief recess.) 24 25 VIDEO OPERATOR: Okay. It's

Page 219 approximately 4:13. 1 We're back on the record. 2. 3 BY MR. LOGAN: Now, in your previous round of 4 0 testimony here, you characterize the Sukumar study 5 as being an example of revealed preference; is that 6 correct? Α 8 Correct. 9 0 And tell me what about the Sukumar study renders an example of revealed preference. 10 11 It makes use of conjoint analysis which 12 is a revealed preference technique. 13 Q Every example of conjoint analysis is an example of revealed preference technique or only 14 15 some? I guess I wouldn't say 100 percent, but 16 17 I've never encountered a conjoint study that wasn't a revealed preference study. Maybe there is a 18 stated preference study, but my understanding is 19 20 that conjoint analysis generally, at least, is a revealed preference technique. 21 2.2 Q And I quess going back to my previous question, what about the conjoint analysis renders 23 it a revealed preference technique? 24 The alternating of choices, attributes, 25 Α

rankings, the exercises that are done are not a direct request for information, but rather for data points that can be analyzed in order to understand a certain piece of information.

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Q What is your level of familiarity with the ASEMAP method?

A I have an understanding generally of the way that it works. I've seen examples of how it works. I have reviewed several peer-reviewed studies of the technique, and I am aware that generally in the business marketplace that there are numerous corporate entities that rely on ASEMAP to help make business decisions.

Q ASEMAP is -- the software used by Dr. Sukumar is proprietary code, is it not?

A To the best of my understanding it is proprietary code.

Q Have you seen it?

A Literally the code? I mean, I've reviewed the ASEMAP tool, but no more than I've seen the software code for Microsoft Excel or for Sawtooth software or for SSI or for any other piece of software. I haven't seen the underlying programming of ASEMAP.

Q Have seen the underlying algorithms of

ASEMAP?

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A I've seen them discussed in peer reviewed journals. But, again, the question is a bit nonsensical to me because we use software programs all the time without seeing the software code underneath them. I think that's pretty common.

Q Other than seeing the algorithms in peer-reviewed journals, do you have any other sources of information about the algorithms in -- built into the ASEMAP software?

A I've also conversations with Dr. Sukumar about how the technique works, how it's -- how it's applied.

Q And by your previous answer about the peer-reviewed journal articles, are you referring to the article cited in the footnotes, especially Footnotes 1 through 3 of the Sukumar report?

A Well, I know I am not talking about Footnote 2 because that's a book that I've read. And it's not specific to ASEMAP. I would have to go back and look at my file to understand what articles I've read, but I do know that Srinivasan is one of the key peer-reviewed authors on the topic so these may be them, but I can't state with certainty.

I do -- I do remember Dr. Sukumar

Page 222 talking extensively about a Srinivasan article in 1 2. the Journal of Marketing Research, which is one of 3 the top tier peer-reviewed journals in that industry. 4 And -- and Footnote 3 cites an article by Dr. Srinivasan from the Journal of Marketing 6 Research. Do you see that? That's what I was referring to. 8 Α 9 0 Have you read that article? 10 Α Again, I would have to confirm with my 11 files, but that's one of the articles, but I very 12 well may have. 13 Q What are of the major criticisms of the ASEMAP system? 14 15 I'm not aware of any criticisms of the ASEMAP system. 16 17 Are you aware of any criticism of the 18 ASEMAP system? 19 Again, I would need to go back and look 20 at the literature that I've reviewed. As I sit here today, I don't have a recollection one way or the 21 2.2 other. 23 Where did Dr. Sukumar get the respondents for his survey? 24 I think that's a question probably best 25 Α

Page 223 levied to Dr. Sukumar. I can go through his report 1 2. and try and pick out where he makes a statement 3 about that, but as I sit here right now I don't have an immediate recollection. 4 Would you like me to review the 5 document? 6 7 I -- if you don't have a recollection, that's -- that's fine, because it does say somewhere 8 9 in this report. 10 Do you know how many respondents took 11 the survey that Dr. Sukumar used in this case? 12 Again, off the top of my head, I 13 believe it was several hundred, but I don't recall the precise number. I assume the Sukumar 14 15 Declaration speaks for itself, and he can speak to 16 the number of respondents himself. 17 And there was, in fact, a culling process that Dr. Sukumar used in order to reduce the 18 19 number of respondents and he was culling them for 20 various reasons that he was questioning the validity 21 of their responses. 2.2 Do you recall that? 23 Α I understand that at a high level. 24 Q Do you know how many respondents Dr. Sukumar ended up with after the culling process 25

took place?

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A Again, that's a number that I've known. Without reviewing his Declaration and materials, I don't have the precise number in mind, but I believe it was hundreds of respondents.

Q Was it less than 200? Do you know?

A It may have been. I don't recall precisely.

Q Is that troubling to you that the number of valid responses on the survey was less than 200, if, in fact, that is the case?

A Absolutely not. For other types of surveys it may be the case that you need hundreds, if not thousands, of respondents, but conjoint exercises are a unique type of survey that by asking consumers multiple questions to elicit their revealed preference diminishes the number of required respondents to get reliable results.

Q What is unique about conjoint analysis that you need less than other types of survey techniques in order to get a valid response?

A I think I just stated that by having multiple exercises as part of the survey, multiple either choices or tasks, you can have -- you can elicit greater information from a single respondent

Page 225 and thus you need fewer respondents. 1 2. If you have extraordinarily good information about a small number of respondents, 3 that's -- that's good enough, in your opinion? 4 I mean, I think it's typical in a 5 classic application of conjoint analysis to have as 6 few as 20 or 30 respondents, maybe less. And that very good information can be derived by that 8 9 exercise. 10 Are you aware that Dr. Sukumar has 11 testified that the respondents here are 12 representative of the putative class? 13 Α That's my understanding, yes. Do you know where his respondents were 14 0 15 from geographically, where they live? Again, without reviewing his background 16 17 materials, I'm not certain that I could recollect 18 that right now. Would it -- were you aware that the 19 20 Sukumar survey used participants from other 21 countries? 2.2 Α I don't recollect that one way or the other. 23 If the Sukumar survey did, in fact, use 24 Q participants from other countries, would that give 25

you pause about the validity of the results?

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A If it's his testimony that the results are projectable to the class, then no.

Q Other than Dr. Sukumar's say-so, would you have reason -- let me -- let me take a step back.

Other than Dr. Sukumar's say-so, would the fact that he included participants from other countries give you pause about the validity of the results?

A Not without some other information.

Q The goal of this -- of Dr. Sukumar's analysis was to acquire high quality information from respondents about their revealed preference for Energy Star clothes washers; is that right, at a high level?

A My understanding of Dr. Sukumar's goal was to develop an estimate of the price premium paid by the class as a result of the Energy Star logo having been placed on the Maytag Centennial washing machines.

Q That's what he was trying to calculate, but the means by which he tried to calculate that was to develop high-quality information from his respondents about their preference for Energy Star

Page 227 clothes washers; isn't that accurate? 1 2. I don't know that it is. You'd have to ask him. My understanding is that his goal was to 3 do a conjoint exercise to determine the price 4 premium. 6 So people who live in Iran are not part 7 of the putative class, correct? I don't know that we can know that one 8 Α way or the other. 9 10 People who live in India are not part of the putative class as moved for by the Plaintiffs 11 12 in this case; isn't that right? 13 Α I'm not certain that we can know that one way or the other. 14 15 People from Israel, same question. Again, I'm not certain that we can know 16 17 that one way or the other. 18 People from Brazil? Q Same answer, I don't believe we can 19 Α 20 tell one way or the other whether any one individual member is a member of the class just by their 21 22 present country of origin. Would an analysis of people who live in 23 Iran, their views of Energy Star clothes washers, 24 25 would that be probative in this case?

Page 228 I haven't made an independent 1 2. evaluation of that one way or the other. You'd have to ask Dr. Sukumar. 3 You can't tell just off the top of your 4 0 head that the use of Iranians in Energy Star clothes 5 washers is not relevant in this case? 6 7 Again, I would defer to Dr. Sukumar. Is Dr. Sukumar still an example of 8 Q 9 trying to find the consumers' willingness to pay for 10 a particular product attribute? 11 I don't believe so, no. Α 12 Is Dr. Sukumar still an example of 13 trying to find the part-worth of a particular product attribute? 14 15 No, I don't believe so. 16 So what is it that Dr. Sukumar was 17 trying to accomplish? 18 My understanding of what Dr. Sukumar was trying to accomplish was to determine an 19 20 estimate of the price premium that was paid by the class as a result of the Defendants' conduct of 21 2.2 placing the Energy Star logo on the Centennial washing machines. 23 24 Q Would it be surprise you to know that Dr. Sukumar has previously characterized this

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methodology as trying to find willingness to pay?

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me?

A I need more information. What do you mean by "this methodology?" What is the context of that statement?

Q An ASEMAP conjoint analysis.

A That's all the information you can give

Q That in the context of an ASEMAP conjoint analysis Dr. Sukumar characterized that survey as trying to find the willingness to pay.

A I mean, it's just such woefully incomplete information I can't tell you anything about that statement. It certainly does not cause me concern based upon my reading of his Declaration and his deposition testimony where I understand that in this case he has had a different stated goal.

Q Does Dr. Sukumar put a dollar figure on the price premium that he calculates in this case?

A My understanding is that he puts a percentage figure on the price premium in this case. That's the one that I cite in my Declaration.

Q Why don't we look at page 7 of
Dr. Sukumar's report where he states that the price
premium for Energy Star logo is \$180.39 or
44.3 percent of the average clothes washer price.

Page 230 Do you see that? 1 2. Α Yes. Could the price premium for the Energy 3 0 Star logo ever exceed 100 percent of the price 4 premium of a clothes washer? 5 I need more context to be able to 6 answer that. Using the ASEMAP methodology, is it 8 Q 9 possible that a product attribute could be 10 responsible for more than 100 percent of the purchase price of a product? 11 12 I'm not aware of that one way or the 13 other. In fact, that would be sort of a 14 0 15 nonsensical idea because a price premium should not be -- cannot be more than 100 percent of the price 16 17 of a product, otherwise the price would be higher? 18 Α Are we talking about the variable of 19 interest in a study here or an ancillary control 20 variable? I'm talking about the ASEMAP 21 methodology -- well, let me -- let me take a step 22 back. 23 24 Why don't we talk about price premium in general. Could a price premium, as you used the 25

Page 231 word in your report, ever be more than 100 percent 1 2. of the price of a product? I need more information to try and make 3 Α that determination. 4 What information would you need? 5 What product are we talking about --6 Α 7 The context of your report, so the clothes washers and price premium as you use it in 8 9 this case. Sorry -- sorry to interrupt. 10 I would need to know in what way the Α method was calculated. I would need to understand 11 12 information about what went into that survey, how 13 the survey or technique is intended to be applied to the facts and circumstances of the case. 14 15 Could a consumer pay an actual price premium of \$1,800 for a \$400 clothes washer? 16 17 Again, I need more information to try and understand that information. 18 19 Q That would -- that would be a strange 20 result, in your opinion? I can't evaluate whether it's strange 21 2.2 or not without more context. 23 Dr. Sukumar -- Dr. Sukumar's underlying data cannot -- could be used to calculate the price 24

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premium for other product attributes other than

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Energy Star because he evaluated several product attributes; isn't that correct?

This is what I was getting at with my request for clarification before as to the variable of interest versus an ancillary control variable.

Again, I'm going to defer to Dr. Sukumar about the ultimate calculations in his survey. However, in economics and statistical studies, it is often the case that you design a study with a particular goal. For example, in this case, to understand the value of the Energy Star. And you can have statistical techniques that provide you with a very accurate read on the variable of interest, the Energy Star, while not intending to give you a precise estimate for other variables that are included in the survey.

Q So it's your testimony that Dr. Sukumar --

A Sorry.

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Q -- Dr. Sukumar accurately calculated the price premium for Energy Star but did not necessarily calculate the price premium for other product attributes?

A Again, I'm not going to speak for

Dr. Sukumar on that subject, but you're raising the issue of you have an analysis that's been done and

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that analysis has been done with a specific focus. Can you use that same analysis unadjusted for other purposes, and I'm telling you that based on my experience there are many types of analyses where the answer to that question is no, that if you wanted to understand a different attribute of the washing machine, for example, you would need to do a study that is focused on understanding that particular attribute. And that simply by controlling for certain attributes, you don't necessarily get a read on their value. And that that is a common and understood element of economic studies. If one were to control for all product 0 attributes, would it be possible to take a product to divide it into individual product attributes and then assign a percentage value to each product attribute? THE WITNESS: Let me hear that back, please. (At which time the following question was read back by the reporter: "Ouestion: If one were to control for all product attributes, would it be possible

to take a product to divide it into individual

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product attributes and then assign a
percentage value to each product attribute?")
 THE WITNESS: That question is too
insufficient on the details for me to give you
an answer.

BY MR. LOGAN:

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Q When you are speaking about price premium in your report, is it your intention to look at all of the attributes of a clothes washer and decide what percentage of the value of the clothes washer is due to the Energy Star logo?

A That is the intention of the study. You are to understand the value that is isolated just as to that one attribute, the price premium that consumers paid for that one attribute.

Q Do you believe that Drs. Dennis and Sukumar have accurately identified the portion of the product value that is attributable to the Energy Star logo?

A I have not reanalyzed Dennis and Sukumar's surveys to make a 100 percent evaluation. I'm relying on their expertise in this case. I have done checks and reviews of their work to understand that at least their basic framework appears to comport with what I understand to be appropriate

Page 235 techniques and find that to be true. 1 2. VIDEO OPERATOR: A little over 10 minutes. 3 BY MR. LOGAN: 4 So ignoring this last answer and going 5 6 back to the previous one, we were discussing the idea of taking the product, dividing it into attributes and assigning a percentage to each 8 product attribute. You -- you recall that? 9 10 I do recall that question. Α 11 Good. Is it your testimony that if we 0 12 did that for the clothes washers at issue in this 13 case you would find that the Energy Star logo was somewhere in the neighborhood of 44 to 55 percent of 14 15 the product value? Again, I'm having a really hard time 16 17 understanding that question. I think maybe what you're trying to elicit here is, for example, would 18 19 the results of the Sukumar study be additive? Could you add them all up and get the total price of the 20 21 machine? 2.2 And I -- in most cases where you were trying to isolate the price premium of a single 23 24 attribute while controlling for others, the answer 25 They're not intended to be additive.

wouldn't take the result of every attribute from the Sukumar study and add it up to try and get the total value of a washing machine. I would look only at -- and this is the goal of the work that has been done hero -- the value of the particular attribute -- I would say the goal is to isolate the premium that has been paid for the particular attribute while controlling for the surrounding attributes. And I believe that Dr. Dennis and Dr. Sukumar understood that goal and acted to achieve that goal.

Q Now, I'm going to point you to a paragraph in your report under the supply-side considerations where you note that in your opinion Dr. Sukumar has considered and accounted for supply-side factors in the determination of his price premium calculation.

Do you see that?

A I do.

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Q And you had a footnote to Sukumar report at 6. First let me ask you a question, as long as we have these two pages here: With respect to the -- the phrasing of your opinion here, you say I understand that Dr. Dennis accounted for supply-side. I understand that Dr. Sukumar has accounted for supply-side.

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Did you make your own determination that Drs. Dennis and Sukumar definitely accounted for supply-side factors, or you were simply relying on their reports and so you -- it has been reported to you, you understand, that Dr. Dennis and Dr. Sukumar accounted for supply-side?

A I haven't independently verified every use of supply-side factors, but I have verified the use, for example, of the retail pricing and the average price points in both the Sukumar and the Dennis surveys and I've satisfied myself that at least as to those issues that they've raised in their own declarations, they adequately controlled for supply-side factors.

Q Is there information on page 6 of the Sukumar report that you would characterize as being a supply-side factor?

The citation that I make to page 6 I think relates to the first paragraph of the page where Dr. Sukumar testifies, quote, "I also took supply-side considerations into account when designing my survey by examining actual sales data and advertising circulars from retailers who saw the Maytag Centennial clothes washing machines to determine the price paid by actual consumers."

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And then he also references his lists of materials considered, which I don't have in front of me right now, or at least I'm not looking at, but I believe may contain other supply-side elements. He's also looked at the market for clothes washing machines more generally and has addressed the types of attributes that are available to consumers at various price points. Again, considering the supply of available washing machines with different features in the marketplace.

Q Other than what is contained here in your previous answer and then in the list of materials considered cited by Dr. Sukumar, is there any other indication to you that Dr. Sukumar considered supply-side factors?

A Again, he confirmed to me that he actively considered supply-side factors in his analysis. I believe he testified to that at his deposition. You would have to ask him for greater detail about all the ways in which he may have made adjustments for the supply-side, but I cite paragraph 6 as an example where he clearly testifies that he has considered and included supply-side considerations in his analysis.

Q I want to look at paragraph 46 of your

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report which starts, "I've also considered supply-side factors in my determination of damages."

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And you go on to discuss the quantity supplied in the rest of this paragraph. Let's pretend for a minute that I am a simple country lawyer from the Rocky Mountains. Could you explain what you were trying to say in paragraph 46?

A It's my experience that occasionally simple country lawyers from various locations confuse the economic underpinnings of various different types of studies, and in this paragraph, one of the goals that I have is to distinguish between types of cases where a determination may be need -- may be needed to be made as to supply under different conditions than actually took place.

For example, if you were to look at -generally at the Apple versus Samsung actions where
Apple and Samsung accuse each other of having stolen
intellectual property, those analyses need to figure
out and compare in reality so many units were sold
by Apple and so many units were sold by Samsung. If
Samsung didn't violate Apple's intellectual
property, how many units would Apple actually have
sold?

And that is very different in my mind

than a case like this where the historic sales of the product are a known fact and are not subject to change. We're not talking about a situation where Joe Six Pack, a class member, is suddenly deemed to have not actually purchased his washing machine. All those sales took place, and we are not trying to figure out how sales may have transited to another company. We're looking at historical facts, actual sales, which, as I state elsewhere in this document, I do not believe there is a dispute as to the total of the sales that are at issue in this litigation.

And the Atlanta Matt case to me is a similar issue. You have one company that issues an advertisement that another says it's injurious to its business. And so you have to figure out in that type of case how might business have been different as a result of that advertising. And, again, that's different here because the total number of units at issue, the total sales of those products, is not in dispute. It's a historical fact.

Q If I'm -- if I'm interpreting this correctly you are not interested in conducting any sort of counterfactual analysis that would try to estimate how many of the clothes washers at issue in this case would have been sold but for the allegedly

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fraudulent Energy Star logo?

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A And I don't do that for the reasons set forth in paragraph 46, which is that the -- the only way to establish damages for people who in some sort of counterfactual would not have purchased the Energy Star would be to offer them a full refund rather than the price premium. And by offering, in my damage calculation to include only the price premium, I wind up with what can only be an inherently conservative measure.

Q So the but-for world of what would the market have charged for these clothes washers had the Energy Star logo not been there, that is not part of your analysis?

A That's correct. I'm looking only at the price premium that actual class members have actually paid in the marketplace as a result of the Energy Star certification having been made when it should not have been made.

VIDEO OPERATOR: Sorry. Four minutes.

BY MR. LOGAN:

Q How can we know the price premium that was actually paid by consumers in this case if we don't know what would -- what they would have made had the logo not been there?

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A That question seems a little bit nonsensical. How can we know it? Whirlpool has made a determination of what consumers made.

Dr. Sukumar made a determination of what consumers pay. Dr. Dennis has made a determination of what consumers paid. There could be a number of any other ways to do that, but those determinations are easily made using the techniques that are at issue in this litigation.

Q Let's look at paragraph 47 where you say if were with were to assume arguendo that Defendant would not have lowered its price in concert with demand. With that particular phrase, what is the concept you're trying to get at?

A I've seen arguments in other cases where a party makes the argument that we just wouldn't have done what you say might have happened, and I don't find that to be an economically compelling argument both because of the obvious conflict of interest in the timing of when those comments are made and the finding, for example, of exercises like the Dennis survey that show a different marketplace outcome.

Q Let's look at paragraph 48. It is also an economic perversion for a defendant engaged in a

litigation with conflict of interest to simply state that "it would never have adjusted its price or would not have adjusted them enough so as to meet demand."

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This sounds to me like some sort of possible counterfactual scenario where we are imagining what the price would have been without the Energy Star logo. Is that what you were trying to get at?

Again, this is a peremptory discussion. Α I don't believe we need a counterfactual examination in this case to understand the price premium that consumers actually paid. I've seen arguments again that suggest that if you were to go back in time and take the label off the washing machines, which is something we can't do, that Defendant states that it would behalf in one way or another. And what I'm suggesting is that, A, that exercise is not necessary; B, because of the conflicts of interest, taking the party's word for it as opposed to seeing some hard evidence is a perversion of an economic study because you're not looking at some actual outcome, and that it is an unlikely outcome as I've described here.

Q Was there a price war in 2009 and 2010

between manufacturers of top-loading Energy Star clothes washers that caused the price of those clothes washers to go down to very low levels as compared with other clothes washers?

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A I'm sorry. I'm going to have to hear that back again.

Q Was there a price war in 2009 and 2010 between makers of Energy Star top-loading clothes washers? I'll just leave it at that.

A I'm not aware one way or the other.

That's not material to the damage methodologies that

I've set forth here in my report.

Q It -- that doesn't matter to you at all, does it?

A It doesn't matter because we have the actual retail sales transactions for the washing machines at issue here.

Q What do the actual retail sales of the washing machines at issue here tell you about any price war that might have taken place between manufacturers between 2009 and 2010?

A That's not a part of my assignment in this case of the studies that I've done and it's immaterial to the damage calculations, so I haven't made an endeavor to understand that.

Q No, but you testified you didn't need to know about that because you have the actual retail sales, and I'm asking for that connection. What is the connection between the actual retail sales data which you do have and the price war that occurred in 2009 which you haven't looked at?

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A Well, first of all you've just put words in my mouth that I've agreed that there's a price war, whatever that means. What I'm telling you is that the prices that consumers paid for these washing machines are what they paid. We have that actual data. So we don't need to conduct an analysis to try and guess at what consumers paid. We have the actual retail transactions that tell us what the average price was that consumers paid.

Q Isn't it possible that -- that even if the market -- let me see if I can rephrase this.

Even if a price premium did exist within a given marketplace if there was then intense competition over that price -- over that attribute that caused the price premium that then the price premium actually charged to customers for that attribute would decrease?

A Boy, I'm going to think about that and probably hear that question back. It was a little

convoluted for me.

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Q If a price premium for a particular attribute did exist within a marketplace and then there was intense competition between suppliers over that attribute, isn't it possible that the price premium charged by the marketplace would decrease as a result of that competition?

A Again, we don't need to surmise about that because we have the actual retail prices that consumers actually paid.

MR. LOGAN: I think we're -- I think I'm done.

MR. DECKANT: First of all, I'd like to the opportunity to review and correct pursuant to Rule 30E. And I would also, right now, like the opportunity for a limited redirect of Mr. Weir. But first I would like to take a short break so I can collect my thoughts.

VIDEO OPERATOR: It is approximately
4:51. At this point we're going to end
Videotape Number 3 in today's deposition of
Mr. Colin B. Weir on Friday, April 22, 2016.

(Brief recess.)

VIDEO OPERATOR: Okay. We are back on the record.

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Page 247 The time is approximately 5:05 p.m., 1 2. and this will begin Videotape Number 4 in today's deposition of Mr. Colin B. Weir, on 3 Friday, April 22, 2016. 4 MR. DECKANT: I'd like to ask the court 5 6 reporter to mark as Exhibit 10, a document that was previously marked as Exhibit 39 at the deposition of J.B. Hoyt on August 12, 8 9 2015. (Document WDZ00012524 - WDZ0012524 was 10 marked Weir-10 for identification.) 11 12 (Off-record discussion.) 13 BY MR. DECKANT: Mr. Weir, do you have a copy of 14 0 Exhibit 10? 15 T do. 16 Α 17 Can you please turn to the page on Exhibit 10 ending in -- you know what, actually, 18 strike that. 19 20 Could you please turn to the second 21 page of Exhibit 10 with the Bates number WDZ0012526. 2.2 Α I'm there. Okay. Do you recognize this document 23 24 as the test data commissioned by the DOE of the washers at issue in this case? 25

Page 248 Α Yes. 1 And this is the test data that the DOE 2. Q relied upon when it decided to refer the matter to 3 the EPA for potential disqualification, correct? 4 Α Yes. 5 6 0 Now, could you please turn to the page 7 ending in Bates number WDZ0012540? 8 Α Okay. I'm there. 9 Mr. Weir, have you heard of the term "fill level 3"? 10 11 I have. Α 12 Do you understand the term fill level 3 13 to be -- strike that. Are you aware that in 2010 the U.S. 14 15 Department of Energy issued an in interpretive rule 16 that fill level 3 was the appropriate place to 17 measure the capacity of a top-loading washers for 18 the purpose of Energy Star certification? 19 I understand that, yes. Α 20 Okay. And do you see on the page 0 21 ending in Bates number 540 it states in the second 2.2. full paragraph, "For the Stage 2 tests Springboard 23 tested capacity at the same fill level used in the 24 Stage 1 test marked as B in figure 1, which is slightly higher than fill level 3 as defined in the 25

Page 249 current interpretive rule on the DOE website, i.e., 1 2. the highest point of the inner most diameter of the top cover as shown in Figure 1." 3 4 Do you see those words? Α I do. 5 So the text of this document states 6 7 that Springboard, which the DOE commissioned, tested 8 the capacity of these washers at a higher level than 9 fill level 3, right? 10 Α Yes. 11 What is the import of the decision to 0 12 measure the capacity above fill level 3? 13 Α All else equal, when the capacity of a washing machine increases, it will appear more 14 15 efficient. And so the results of the Springboard 16 study, vis-a-vis the Department of Energy's rules, 17 are conservative and had Springboard measured the 18 capacity at fill level 3 as they state in this 19 document, the apparent failure of the Energy Star 20 certification would be even worse than they conclude 21 in this study. 2.2 Now, let me -- let me parse that out a Q little bit. Capacity is an input to the measurement 23 24 of modified energy factor and water factor, right? 25 Α Correct.

Q And the MEF and WF as we've been discussing help determine the cut offs for whether or not a top-loading washer is Energy Star qualified, correct?

A Correct.

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Q So if all else being equally I believe you stated -- if all else being equal the capacity is higher than otherwise a washer would appear to be more efficient, correct?

A That's correct.

Q So is it your opinion that by measuring above fill level 3 Springboard is actually conducting a test that is, in fact, more conservative than had they measured at fill level 3?

A It's not only my opinion, it's the opinion of Springboard as they state here in the report.

Q And we see that in the next paragraph down; right? It says, "If the capacity had been measured per the interpretive rule, namely at fill level 3," I'm continuing now, "we expect that the tests that MEF and WF would have been worse than the values measured during the stage 2 tests. Therefore we believe that the DOE can conclude firmly that this model is not compliant with Energy Star

Page 251 specifications." 1 2. Do you see that? Α I do. 3 Do you have any basis to disagree with 0 4 that? 5 6 Α No. It's a matter of basic math that, 7 as capacity increases, all else equal, a washer will appear situation. 8 9 0 So earlier -- I am going to paraphrase this poorly, but earlier in this deposition, do you 10 11 recall that Mr. Logan asked you a question whether 12 you were aware that the DOE's commission testing 13 acknowledged that they tested the washers at the incorrect fill level? 14 15 Do you recall hearing a question like 16 that? 17 I remember that line of questioning. think the words Mr. Logan used caused me to think of 18 something other than this document, because this 19 20 document indicates a conservative analysis in a way 21 that I think is appropriate for our analysis in this 2.2 litigation, and I interpreted his comments to 23 suggest something else perhaps that Springboard had 24 done an analysis that was less conservative. 25 that turns out to not be the case, at least to the

Page 252 best of my understanding. 1 2. So does this deviation give you any concern as to the veracity of your opinion? 3 Α My opinions remain unchanged. 4 This only bolsters the conclusion that I've provided 5 conservative estimates of damages in this case. 6 7 Okay. You can set Exhibit 10 aside. 0 Now please take out Exhibit 1, your 8 9 report, and please turn to page 6 where Table 2 10 appears. 11 I'm there. Δ 12 Okay. Now, do you recall earlier in 13 this deposition there was a line of questioning where you indicated that there may be some clerical 14 15 errors on Tables 2 through 4 in your expert report? 16 Yes, I believe the fourth column in the 17 tables, or the third column of data, the one under 18 the heading Additional Energy Expense contains 19 typographical errors. 20 So in Table 2, you stated that there's 21 a typographical error for the water in the -- in the 2.2 column entitled Additional Energy Expense, correct? 23 Α That's right. 24 Q So I'd like to walk through your calculations here. So as originally stated on 25

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page 6, the additional energy expense for water in Table 2 is \$12.70, correct?

A That's what's in the table, but that number is a typographical error.

Q Sure. Now let's take a look at Exhibit 3.

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A I'm at Exhibit 3 to Deposition Weir-1.

Q Now, do you see perhaps three-quarters of the way down the page in the section concerning water it says energy expense damages, \$45.62.

Do you see that?

A I see that, and this is the section of my workpapers that calculates the damages associated with additional water usage.

Q Now, how did you arrive at that figure of \$45.62?

A That is a multiplication of the 722-gallon difference that I have calculated elsewhere by roughly 6.3 cents cumulative average cost per gallon over the life of the washing machine that I calculate, and that number is also present on this workpaper. So in my workpaper, the numbers are calculated in Excel to greater detail. But roughly 6.3 cents times 722 gallons will give you the \$45.62 that my workpaper determines to be the energy

Page 254 expense damages per washing machine as it relates to 1 2. water usage. So should that \$45.62 figure, should 3 that be the figure in Table 2 under the column 4 Additional Energy Expense in the row Water? 5 6 That's right. 45.62 is the correct 7 figure to be placed in that column. Now, what happens if we take the number 8 Q 9 of units in the second column, namely 430,108, and 10 then multiply that by the additional energy expense 11 with the clerical error fixed of \$45.62, what's the 12 result of that calculation? 13 Α It should be accounting for rounding error \$19.6 million, as I've shown in the final 14 column in this table. 15 16 So in the context of Table 2, once this 17 clerical error is updated with the correct figures 18 in Exhibit 3, this doesn't actually change your 19 total energy expense damages calculation in Table 2, 20 right? 21 Α It doesn't. 2.2 Q Now, let's turn the page to page 7. 23 Α Okay. And here in Table 3 under the row 24 Q entitled Water and under the column Additional 25

Page 255 Energy Expense, again we see the \$12.70 figure, 1 2. right? 3 Again, that 12.70 is a typographical Α error, but yes, I see it there in the table. 4 And just as we've been discussing and 5 6 just as we've walked through in Exhibit 3, that 7 should be \$45.62? Yes, from the same source, Exhibit 3 to 8 9 my Declaration. 10 Again, if we multiply 430,108 times 11 \$45.62 for water, we arrive at the total energy 12 expense damages for water of approximately 13 19.6 million, accounting for rounding, right? That's correct. And that's the number Α 14 15 that is reflected in my analysis here in this table 16 already. 17 So yet again this clerical error 18 doesn't alter the total energy expense damages you calculate in Table 3, correct? 19 20 You are correct. It makes no 21 difference, the typographical error makes no 2.2 difference to my final determination of damages. 23 Now let's turn the page to Table 4 on Q 24 page 8. 25 Α Page 8, Table 4, I'm there, yes.

Page 256 And yet again we see the same clerical 1 0 error in the row entitled Water in the column 2. entitled Additional Energy Expense, correct? 3 Α That's correct. 4 And yet again as that pertains to the 5 6 calculation of total energy expense damages, your 7 figure of approximately 19.6 million is borne out by multiplying 430,108 units by \$45.62, correct? 8 9 Α Right. Again, that's all the 10 information that's reflected in my Exhibit 3 11 The 430,000 times the \$45 figure gets workpapers. 12 the 19.6 million that's already here in the table. 13 That number is correct and remains unchanged. Now, let's briefly talk about the 14 0 15 additional energy expense for electricity in 16 Table 4. 17 Actually, going back to Table 3 for a 18 moment, at times you've used \$22.09 for additional 19 energy expense as we see in Table 3, and then 20 looking at Table 4 -- you know what, actually, 21 strike that. 2.2 Right. So let's actually look at 23 Table 2 on page 6. 24 Α Okay. Under the column entitled Additional 25 Q

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Energy Expense and the row entitled Electricity, we see a figure of \$42.30, right?

A I see that, yes.

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Q All right. And turning to Table 3 on the next page under Additional Energy Expense under Electricity, we see a figure of \$22.09, right?

A That's correct.

Q So why do you use \$22.09 in Table 3 yet you use 42.30 in Table 2?

A Table 2 reflects a calculation of damages under the strict testing guidelines which calculates everything in kilowatt hours. And it assumes that the energy used by the machine to power the machine itself, plus the energy used by the washing machine to obtain hot water is obtained from electrical sources.

Table 3 is designed to examine a scenario wherein all of the machines obtain the power necessary to operate the machine itself from an electrical source, but all of the energy necessary to heat water for use in the machine via a natural gas water heater. And so there is simply less electricity used by the machine in Table 3 because it's substituting natural gas as an energy source for part of the energy used by the machine.

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Q So now let's look at Table 4 on page 8. Under the column entitled Additional Energy Expense in the first row labeled Electricity, we see a figure of \$22.09, right?

A Again, that's a typographical error in that row, but that is what the document says right here.

Q And per your prior explanation to my last question, it should have been 42.30 as we see in Table 2, right?

A Right. There are -- just so the record is clear, there are two rows labeled Electricity in Table 4 on. The first row where the annual energy use difference is 31 kilowatt hours, that additional energy expense number of 22.09 is a typographical error and should reflect the number that's in Table 2, \$42.30.

Q Thank you.

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Now, so if -- if we take a look at Table 4 and we take a look at the first row entitled Electricity and the column titled Additional Energy Expense, if we changed that clerical error of \$22.09 to the correct figure of \$42.30, that's the appropriate change, right?

A That's the appropriate change. And,

Page 259 again, that information is reflected correctly in my 1 2. workpapers which are attached to the Declaration as Exhibit 3. 3 And just for the sake of the record, if 0 4 we take the number of units reported in that same 5 6 row, 177,819, and we multiply that figure by \$42.30, we arrive at approximately \$7.5 million, correct? Yes, that's correct. 8 Α 9 0 And that's the same figure reported in the column entitled Total Energy Expense Damages, 10 11 correct? 12 That's correct. The only typographical Α 13 error was under the Additional Energy Expense number. The calculation from the Energy Expense 14 15 Damages was correct from the start. 16 So --Q 17 Α Right. -- in Tables 2 through 4, to summarize, 18 0 19 do you agree that these clerical errors did not 20 actually impact your total energy expense damages 21 calculations? 2.2 Α I agree they do not impact the total energy expense damages as I set forth in these 23 tables. 24 And calculations these are laid out 25 Q

Page 260 properly in Exhibit 3 to your report, correct? 1 2. Α That's correct. 3 MR. DECKANT: I have no further 4 questions. BY MR. LOGAN: 5 Could I ask a few questions about this 6 7 Exhibit 10? 8 Α Yes. 9 0 On page 12540 of Exhibit 10 Mr. Deckant 10 had pointed you to that earlier, do you see the 11 second bullet point on that page where it says 12 "Consistent with the most recent RCW Guidelines, 13 Version 3, 5/19/2010, that DOE approved for Energy Star testing"? 14 15 Α I see that here. 16 Okay. And Mr. Deckant asked you your 17 understanding of fill level 3 as used in the context of -- of this document. You remember that? 18 19 Α Yes. 20 What is your understanding of what fill 21 level 3 is? 2.2 Α It is the point in the washing machine to which it should be filled to determine its 23 24 capacity. And when did fill level 3 become the 25 Q

Page 261 official DOE standard for Energy Star testing? 1 2. Off the top of my head I don't recall, but it may possibly be the date that's shown here in 3 this document. 4 Below that bullet point it says, "If 5 6 the capacity had been measured per the interpretive rule, we expect the tested MEF and WF would have been worse than the values measured during the Stage 8 9 2 test." 10 Do you see that? 11 Α Yes. 12 By "interpretive rule" in that 13 sentence, do you take that to mean fill level 3 had they -- let me rephrase. 14 15 Had they measured the capacity to fill level 3 per the interpretive rule the test results 16 17 would have been worse? 18 Α Yes, that's my understanding of that 19 text. 20 Because the phrase "interpretive rule" Q 21 here they are talking about their enactment of fill 2.2 level 3. And, in fact, if you look at the caption to the picture on this page, it says "fill level 3 23 per the DOE interpretive rule." 24 25 Α That's what that caption says.

Page 262 Okay. So at the time that this testing 1 0 2. took place, which was in either late 2010 or early 2011, fill level 3 was the DOE standard for the 3 measurement of capacity in top-loading clothes 4 washers; is that correct? 5 That's my understanding, yes. 6 Α 7 Why did Springboard not test the 0 clothes washers to fill level 3? 8 9 MR. DECKANT: Objection. 10 THE WITNESS: You would have to ask the 11 people at Springboard that question. 12 BY MR. LOGAN: 13 Q Fill level 3 was the standard and yet they did not measure capacity to fill level 3, did 14 15 they? 16 Again, they made what they believed was 17 a conservative choice in the -- in the measurement 18 here. Do you believe this was an accident or 19 Q 20 it was intentional that they did not measure to fill 21 level 3? 2.2 MR. DECKANT: Objection. 23 THE WITNESS: Based upon their description of what they've done, it certainly 24 does not sound like an accident. 25

Page 263 BY MR. LOGAN: 1 2. Q But you're speculating; is that right? Α That's my interpretation of this 3 document. 4 But you don't know for sure what their 5 0 intention was? 6 7 Α It's my interpretation of the document. It -- it's hard to see on this copy 8 Q 9 because it's black and white, it's a little bit fuzzy, but there are markers at various fill levels 10 11 according to Springboard in this graphic. 12 Do you see that? 13 Α As you said, this is -- I'm usually very good at being able to read these things, but I 14 15 think I can see some indications here, but this 16 is -- it's very hard to see. 17 Could you identify where fill level 3 is on this graphic, not according to what's labeled 18 19 here, but according to what your interpretation of what fill level 3 is? 20 21 I believe it's the higher -- highest 2.2 point of the inner-most diameter, and I think 23 actually there is sort of an arrow pointing to that -- the letters "DOE" to the left --24 25 Q And so --

Page 264 -- on this graphic. 1 Α 2. Q You agree with Springboard that fill level 3 is as indicated on this graphic? 3 MR. DECKANT: Objection, lack of 4 foundation. 5 THE WITNESS: I haven't made an 6 7 independent evaluation one way or the other. BY MR. LOGAN: 8 9 0 Are you aware of fill level 4 -- of what fill level 4 is generally? 10 I'm less familiar with where it is in 11 Δ 12 the washing machine. I know that it is higher than 13 fill level 3 and that it is above the Department of Energy's quidelines for where capacity should be 14 determined. 15 16 The phrase that you and the counselor 17 made several times during your back-and-forth was 18 "all else equal," all else equal when the capacity of the washer increases the clothes washer would 19 20 appear to be more efficient. Do you -- do you recall testimony along 21 2.2 those lines? 23 Α Yes. 24 What did you mean by the phrase "all Q 25 else equal"?

2.

2.2

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A If you had two washing machines that were different in different respects and had different energy consumptions and they were different sizes, you couldn't necessarily know what the impact of a change in capacity might be. So if you increase capacity, but then also changed other elements without other information, the analysis may not be dispositive. When you have one washing machine and there are no changes in that washing machine, the mathematical formulas used by the DOE will result in more favorable energy efficiency measurements if the measurement of the capacity is higher.

Q Great. Is all else equal a sound assumption in this case? In other words, did any of the inputs change other than capacity?

MR. DECKANT: Objection.

THE WITNESS: My understanding is that all of the Centennial washing machines at issue in this case are identical in terms of an energy efficiency standpoint, and so the use of one Centennial washing machine versus another, there are -- those should have identical configurations. And so the change in the measurement of capacity would result in

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Page 266 an increased measurement of efficiency for the 1 2. Centennial washing machines. BY MR. LOGAN: 3 Let me -- let me get at this a slightly 0 4 different way. If capacity is measured to fill 5 level 3, how does that impact how the test is 6 conducted in terms of how much cloth is put in to run the test? 8 9 MR. DECKANT: Objection. 10 THE WITNESS: The washing machine is 11 filled to its capacity. 12 BY MR. LOGAN: 13 And therefore a higher capacity measurement, say, for example, to fill level 4, 14 15 would result in even more cloth being put in the 16 clothes washer for the purpose of running the test? 17 That would depend on the regulations governing the test. 18 I'll represent to you that that is, in 19 20 fact, the case. How did this -- how would this 21 clothes washer react to being filled with cloth up 2.2 to fill level 4 versus fill level 3? 23 Α I don't understand that question. If there's a different amount of cloth 24 Q 25 put in the clothes washer at a measurement to fill

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level 3 than there is to fill level 4, how does the change in the amount of cloth impact the energy and water consumption of the clothes washer?

A My understanding based upon the Springboard tests, and they state here, is that had they run the tests with the higher capacity, the test values would have been worse regardless.

Q Is it your understanding that had Springboard run the test to fill level 4, that these clothes washers still would have failed to meet Energy Star?

A That's my reading of this document.

MR. LOGAN: Okay. That's it.

VIDEO OPERATOR: Okay. The time is now approximately 5:32, and this will end today's videotaped deposition of Mr. Colin B. Weir on Friday, April 22, 2016. We are off the record.

2.

2.2

Page 268 1 2 CERTIFICATION 3 4 I, LISA FORLANO, a Certified Realtime 5 Reporter, Certified Court Reporter and Notary Public, do hereby certify that I 6 7 reported the deposition in the above-captioned matter, that the said 8 9 witness was duly sworn by me; that the 10 foregoing is a true and correct transcript of the stenographic notes of testimony 11 12 taken by me in the above-captioned matter. 13 I further certify that I am not an 14 attorney or counsel for any of the parties, not a relative or employee of any attorney 15 16 or counsel connected with the action, nor 17 financially interested in the action. 18 19 20 LISA FORLANO, CRR, CCR #XI01143 21 2.2 DATED: April 25, 2016 23 24 2.5

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24
      Encl.
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Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES

ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF SEPTEMBER 1,

2014. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

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